



## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

<b>(51) International Patent Classification <sup>6</sup> :</b>  <b>C12Q 1/68</b>	<b>A2</b>	<b>(11) International Publication Number:</b> <b>WO 98/20165</b>  <b>(43) International Publication Date:</b> 14 May 1998 (14.05.98)
<b>(21) International Application Number:</b> PCT/US97/20313  <b>(22) International Filing Date:</b> 5 November 1997 (05.11.97)  <b>(30) Priority Data:</b> 60/030,455      6 November 1996 (06.11.96)      US  <b>(71) Applicant (for all designated States except US):</b> WHITEHEAD INSTITUTE FOR BIOMEDICAL RESEARCH [US/US]; Nine Cambridge Center, Cambridge, MA 02142 (US).  <b>(72) Inventors; and</b> <b>(75) Inventors/Applicants (for US only):</b> LANDER, Eric, S. [US/US]; 151 Bishop Allen Drive, Cambridge, MA 02138 (US). WANG, David [CN/US]; Apartment 314, 276 Mass- achusetts Avenue, Arlington, MA 02173 (US). HUDSON, Thomas [CA/US]; 361 Metcalfe Avenue, Westmount, Quebec H3Z 2J2 (CA).  <b>(74) Agents:</b> GRANAHAN, Patricia et al.; Hamilton, Brook, Smith & Reynolds, Two Militia Drive, Lexington, MA 02173 (US).		<b>(81) Designated States:</b> JP, US, European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).  <b>Published</b> <i>Without international search report and to be republished          upon receipt of that report.</i>
<b>(54) Title:</b> BIALLELIC MARKERS  <b>(57) Abstract</b>  <p>The invention provides nucleic acid segments of the human genome including polymorphic sites. Allele-specific primers and probes hybridizing to regions flanking these sites are also provided. The nucleic acids, primers and probes are used in applications such as forensics, paternity testing, medicine and genetic analysis.</p>		

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## BIALLELIC MARKERS

## RELATED APPLICATIONS

This application claims priority to U.S. provisional application Serial No. 60/030,455, filed November 6, 1996, the entire teachings of which are incorporated herein by reference.

## BACKGROUND OF THE INVENTION

The genomes of all organisms undergo spontaneous mutation in the course of their continuing evolution, generating variant forms of progenitor sequences (Gusella, *Ann. Rev. Biochem.* 55, 831-854 (1986)). The variant form may confer an evolutionary advantage or disadvantage relative to a progenitor form or may be neutral. In some instances, a variant form confers a lethal disadvantage and is not transmitted to subsequent generations of the organism. In other instances, a variant form confers an evolutionary advantage to the species and is eventually incorporated into the DNA of many or most members of the species and effectively becomes the progenitor form. In many instances, both progenitor and variant form(s) survive and co-exist in a species population. The coexistence of multiple forms of a sequence gives rise to polymorphisms.

Several different types of polymorphism have been reported. A restriction fragment length polymorphism (RFLP) is a variation in DNA sequence that alters the length of a restriction fragment (Botstein et al., *Am. J. Hum. Genet.* 32, 314-331 (1980)). The restriction fragment length polymorphism may create or delete a restriction site, thus changing the length of the restriction fragment.

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RFLPs have been widely used in human and animal genetic analyses (see WO 90/13668; W090/11369; Donis-Keller, *Cell* 51, 319-337 (1987); Lander et al., *Genetics* 121, 85-99 (1989)). When a heritable trait can be linked to a particular RFLP, the presence of the RFLP in an individual can be used to predict the likelihood that the animal will also exhibit the trait.

Other polymorphisms take the form of short tandem repeats (STRs) that include tandem di-, tri- and tetra-nucleotide repeated motifs. These tandem repeats are also referred to as variable number tandem repeat (VNTR) polymorphisms. VNTRs have been used in identity and paternity analysis (US 5,075,217; Armour et al., *FEBS Lett.* 307, 113-115 (1992); Horn et al., W0 91/14003; Jeffreys, EP 370,719), and in a large number of genetic mapping studies.

Other polymorphisms take the form of single nucleotide variations between individuals of the same species. Such polymorphisms are far more frequent than RFLPs, STRs and VNTRs. Some single nucleotide polymorphisms occur in protein-coding sequences, in which case, one of the polymorphic forms may give rise to the expression of a defective or other variant protein and, potentially, a genetic disease. Examples of genes, in which polymorphisms within coding sequences give rise to genetic disease include  $\beta$ -globin (sickle cell anemia) and CFTR (cystic fibrosis). Other single nucleotide polymorphisms occur in noncoding regions. Some of these polymorphisms may also result in defective protein expression (e.g., as a result of defective splicing). Other single nucleotide polymorphisms have no phenotypic effects.

Single nucleotide polymorphisms can be used in the same manner as RFLPs and VNTRs, but offer several advantages. Single nucleotide polymorphisms occur with greater



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frequency and are spaced more uniformly throughout the genome than other forms of polymorphism. The greater frequency and uniformity of single nucleotide polymorphisms means that there is a greater probability that such a

5 polymorphism will be found in close proximity to a genetic locus of interest than would be the case for other polymorphisms. The different forms of characterized single nucleotide polymorphisms are often easier to distinguish than other types of polymorphism (e.g., by use of assays

10 employing allele-specific hybridization probes or primers).

Only a small percentage of the total repository of polymorphisms in humans and other organisms has been identified. The limited number of polymorphisms identified to date is due to the large amount of work required for

15 their detection by conventional methods. For example, a conventional approach to identifying polymorphisms might be to sequence the same stretch of DNA in a population of individuals by dideoxy sequencing. In this type of approach, the amount of work increases in proportion to

20 both the length of sequence and the number of individuals in a population and becomes impractical for large stretches of DNA or large numbers of persons.

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## SUMMARY OF THE INVENTION

The invention provides nucleic acid sequences comprising nucleic acid segments of from about 10 to about 200 bases as shown in the Table, column 7, including a polymorphic site. Complements of these segments are also included. The segments can be DNA or RNA, and can be double- or single-stranded. Segments can be, for example, 10-20, 10-50 or 10-100 bases long. Preferred segments include a biallelic polymorphic site. The base occupying the polymorphic site in the segments can be the reference (Table, column 3) or an alternative base (Table, column 4).

The invention further provides allele-specific oligonucleotides that hybridize to a segment of a fragment shown in the Table, column 7, or its complement. These oligonucleotides can be probes or primers. Also provided are isolated nucleic acids comprising a sequence shown in the Table, column 7, or the complement thereto, in which the polymorphic site within the sequence is occupied by a base other than the reference base shown in the Table, column 3.

The invention further provides a method of analyzing a nucleic acid from an individual. The method determines which base is present at any one of the polymorphic sites shown in the Table. Optionally, a set of bases occupying a set of the polymorphic sites shown in the Table is determined. This type of analysis can be performed on a number of individuals, who are tested for the presence of a disease phenotype. The presence or absence of disease phenotype is then correlated with a base or set of bases present at the polymorphic sites in the individuals tested.

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DETAILED DESCRIPTION OF THE INVENTION  
DEFINITIONS

An oligonucleotide can be DNA or RNA, and single- or double-stranded. Oligonucleotides can be naturally occurring or synthetic, but are typically prepared by synthetic means. The oligonucleotides of the present invention can comprise all of an oligonucleotide sequence presented in column 7 of the Table or a segment of such an oligonucleotide which includes a polymorphic site.

Oligonucleotides can be all of a nucleic acid segment as represented in column 7 of the Table; a nucleic acid sequence which comprises a nucleic acid segment represented in column 7 of the Table and additional nucleic acids (present at either or both ends of a nucleic acid segment of column 7); or a portion (fragment) of a nucleic acid segment represented in column 7 of the Table which includes a polymorphic site. Preferred oligonucleotides of the invention include segments of DNA, or their complements, which include any one of the polymorphic sites shown in the Table. The segments can be between 5 and 250 bases, and, in specific embodiments, are between 5-10, 5-20, 10-20, 10-50, 20-50 or 10-100 bases. The polymorphic site can occur within any position of the segment. The segments can be from any of the allelic forms of DNA shown in the Table.

Hybridization probes are oligonucleotides which bind in a base-specific manner to a complementary strand of nucleic acid. Such probes include peptide nucleic acids, as described in Nielsen *et al.*, *Science* 254, 1497-1500 (1991).

As used herein, the term primer refers to a single-stranded oligonucleotide which acts as a point of initiation of template-directed DNA synthesis under appropriate conditions (e.g., in the presence of four different nucleoside triphosphates and an agent for

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polymerization, such as, DNA or RNA polymerase or reverse transcriptase) in an appropriate buffer and at a suitable temperature. The appropriate length of a primer depends on the intended use of the primer, but typically ranges from 5 15 to 30 nucleotides. Short primer molecules generally require cooler temperatures to form sufficiently stable hybrid complexes with the template. A primer need not reflect the exact sequence of the template, but must be sufficiently complementary to hybridize with a template.

10 The term primer site refers to the area of the target DNA to which a primer hybridizes. The term primer pair refers to a set of primers including a 5' (upstream) primer that hybridizes with the 5' end of the DNA sequence to be amplified and a 3' (downstream) primer that hybridizes with 15 the complement of the 3' end of the sequence to be amplified.

As used herein, linkage describes the tendency of genes, alleles, loci or genetic markers to be inherited together as a result of their location on the same 20 chromosome. It can be measured by percent recombination between the two genes, alleles, loci or genetic markers.

As used herein, polymorphism refers to the occurrence of two or more genetically determined alternative sequences or alleles in a population. A polymorphic marker or site 25 is the locus at which divergence occurs. Preferred markers have at least two alleles, each occurring at frequency of greater than 1%, and more preferably greater than 10% or 20% of a selected population. A polymorphic locus may be as small as one base pair. Polymorphic markers include 30 restriction fragment length polymorphisms, variable number of tandem repeats (VNTR's), hypervariable regions, minisatellites, dinucleotide repeats, trinucleotide repeats, tetranucleotide repeats, simple sequence repeats,

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and insertion elements such as Alu. The first identified allelic form is arbitrarily designated as the reference form and other allelic forms are designated as alternative or variant alleles. The allelic form occurring most frequently in a selected population is sometimes referred to as the wildtype form. Diploid organisms may be homozygous or heterozygous for allelic forms. A diallelic or biallelic polymorphism has two forms. A triallelic polymorphism has three forms.

10 A single nucleotide polymorphism occurs at a polymorphic site occupied by a single nucleotide, which is the site of variation between allelic sequences. The site is usually preceded by and followed by highly conserved sequences of the allele (e.g., sequences that vary in less than 1/100 or 1/1000 members of the populations).

A single nucleotide polymorphism usually arises due to substitution of one nucleotide for another at the polymorphic site. A transition is the replacement of one purine by another purine or one pyrimidine by another pyrimidine. A transversion is the replacement of a purine by a pyrimidine or vice versa. Single nucleotide polymorphisms can also arise from a deletion of a nucleotide or an insertion of a nucleotide relative to a reference allele. Typically the polymorphic site is occupied by a base other than the reference base. For example, where the reference allele contains the base "T" at the polymorphic site, the altered allele can contain a "C", "G" or "A" at the polymorphic site.

Hybridizations are usually performed under stringent conditions, for example, at a salt concentration of no more than 1 M and a temperature of at least 25°C. For example, conditions of 5X SSPE (750 mM NaCl, 50 mM NaPhosphate, 5 mM EDTA, pH 7.4) and a temperature of 25-30°C, or equivalent

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conditions, are suitable for allele-specific probe hybridizations. Equivalent conditions can be determined by varying one or more of the parameters given as an example, as known in the art, while maintaining a similar degree of identity or similarity between the target nucleotide sequence and the primer or probe used.

The term "isolated" is used herein to indicate that the material in question exists in a physical milieu distinct from that in which it occurs in nature. For example, an isolated nucleic acid of the invention may be substantially isolated with respect to the complex cellular milieu in which it naturally occurs. In some instances, the isolated material will form part of a composition (for example, a crude extract containing other substances), buffer system or reagent mix. In other circumstance, the material may be purified to essential homogeneity, for example as determined by PAGE or column chromatography such as HPLC. Preferably, an isolated nucleic acid comprises at least about 50, 80 or 90 percent (on a molar basis) of all macromolecular species present.

#### I. Novel Polymorphisms of the Invention

The novel polymorphisms of the invention are listed in the Table. The first column of the Table lists the names assigned to the fragments in which the polymorphisms occur. The fragments are all human genomic fragments. The sequence of one allelic form of each of the fragments (arbitrarily referred to as the prototypical or reference form) has been previously published. These sequences are listed at <http://www-genome.wi.mit.edu/> (all STS's (sequence tag sites)); <http://shgc.stanford.edu> (Stanford STS's); and <http://ww.tigr.org/> (TIGR STS's). The Web sites also list primers for amplification of the fragments,

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and the genomic location of fragments. Some fragments are expressed sequence tags, and some are random genomic fragments. All information in the websites concerning the fragments listed in the Table is incorporated by reference  
5 in its entirety for all purposes.

The second column lists the position in the fragment in which a polymorphic site has been found. Positions are numbered consecutively with the first base of the fragment sequence as listed in one of the above databases being  
10 assigned the number one. The third column lists the base occupying the polymorphic site in the sequence in the data base. This base is arbitrarily designated the reference or prototypical form, but it is not necessarily the most frequently occurring form. The fourth column in the Table  
15 lists the alternative base(s) at the polymorphic site. The fifth column of the Table lists a 5' (upstream or forward) primer that hybridizes with the 5' end of the DNA sequence to be amplified. The sixth column of the Table lists a 3' (downstream or reverse) primer that hybridizes with the  
20 complement of the 3' end of the sequence to be amplified. The seventh column of the Table lists a number of bases of sequence on either side of the polymorphic site in each fragment. The indicated sequences can be either DNA or RNA. In the latter, the T's shown in the Table are  
25 replaced by U's. The base occupying the polymorphic site is indicated in EUPAC-IUB ambiguity code.

## II. Analysis of Polymorphisms

### A. Preparation of Samples

Polymorphisms are detected in a target nucleic acid  
30 from an individual being analyzed. For assay of genomic DNA, virtually any biological sample (other than pure red blood cells) is suitable. For example, convenient tissue

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samples include whole blood, semen, saliva, tears, urine, fecal material, sweat, buccal, skin and hair. For assay of cDNA or mRNA, the tissue sample must be obtained from an organ in which the target nucleic acid is expressed. For example, if the target nucleic acid is a cytochrome P450, the liver is a suitable source.

Many of the methods described below require amplification of DNA from target samples. This can be accomplished by e.g., PCR. See generally *PCR Technology: Principles and Applications for DNA Amplification* (ed. H.A. Erlich, Freeman Press, NY, NY, 1992); *PCR Protocols: A Guide to Methods and Applications* (eds. Innis, et al., Academic Press, San Diego, CA, 1990); Mattila et al., *Nucleic Acids Res.* 19, 4967 (1991); Eckert et al., *PCR Methods and Applications* 1, 17 (1991); *PCR* (eds. McPherson et al., IRL Press, Oxford); and U.S. Patent 4,683,202.

Other suitable amplification methods include the ligase chain reaction (LCR) (see Wu and Wallace, *Genomics* 4, 560 (1989), Landegren et al., *Science* 241, 1077 (1988), transcription amplification (Kwoh et al., *Proc. Natl. Acad. Sci. USA* 86, 1173 (1989)), and self-sustained sequence replication (Guatelli et al., *Proc. Nat. Acad. Sci. USA*, 87, 1874 (1990)) and nucleic acid based sequence amplification (NASBA). The latter two amplification methods involve isothermal reactions based on isothermal transcription, which produce both single stranded RNA (ssRNA) and double stranded DNA (dsDNA) as the amplification products in a ratio of about 30 or 100 to 1, respectively.

#### B. Detection of Polymorphisms in Target DNA

There are two distinct types of analysis of target DNA for detecting polymorphisms. The first type of analysis,



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sometimes referred to as de novo characterization, is carried out to identify polymorphic sites not previously characterized (i.e., to identify new polymorphisms). This analysis compares target sequences in different individuals to identify points of variation, i.e., polymorphic sites. By analyzing groups of individuals representing the greatest ethnic diversity among humans and greatest breed and species variety in plants and animals, patterns characteristic of the most common alleles/haplotypes of the locus can be identified, and the frequencies of such alleles/haplotypes in the population can be determined. Additional allelic frequencies can be determined for subpopulations characterized by criteria such as geography, race, or gender. The de novo identification of polymorphisms of the invention is described in the Examples section. The second type of analysis determines which form(s) of a characterized (known) polymorphism are present in individuals under test. There are a variety of suitable procedures, which are discussed in turn.

#### 1. Allele-Specific Probes

The design and use of allele-specific probes for analyzing polymorphisms is described by e.g., Saiki et al., *Nature* 324, 163-166 (1986); Dattagupta, EP 235,726, Saiki, WO 89/11548. Allele-specific probes can be designed that hybridize to a segment of target DNA from one individual but do not hybridize to the corresponding segment from another individual due to the presence of different polymorphic forms in the respective segments from the two individuals. Hybridization conditions should be sufficiently stringent that there is a significant difference in hybridization intensity between alleles, and preferably an essentially binary response, whereby a probe

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hybridizes to only one of the alleles. Some probes are designed to hybridize to a segment of target DNA such that the polymorphic site aligns with a central position (e.g., in a 15-mer at the 7 position; in a 16-mer, at either the 8 or 9 position) of the probe. This design of probe achieves good discrimination in hybridization between different allelic forms.

Allele-specific probes are often used in pairs, one member of a pair showing a perfect match to a reference form of a target sequence and the other member showing a perfect match to a variant form. Several pairs of probes can then be immobilized on the same support for simultaneous analysis of multiple polymorphisms within the same target sequence.

## 2. Tiling Arrays

The polymorphisms can also be identified by hybridization to nucleic acid arrays, some examples of which are described in WO 95/11995. One form of such arrays is described in the Examples section in connection with de novo identification of polymorphisms. The same array or a different array can be used for analysis of characterized polymorphisms. WO 95/11995 also describes subarrays that are optimized for detection of a variant form of a precharacterized polymorphism. Such a subarray contains probes designed to be complementary to a second reference sequence, which is an allelic variant of the first reference sequence. The second group of probes is designed by the same principles as described in the Examples, except that the probes exhibit complementarity to the second reference sequence. The inclusion of a second group (or further groups) can be particularly useful for analyzing short subsequences of the primary reference

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sequence in which multiple mutations are expected to occur within a short distance commensurate with the length of the probes (e.g., two or more mutations within 9 to 21 bases).

### 3. Allele-Specific Primers

5 An allele-specific primer hybridizes to a site on target DNA overlapping a polymorphism and only primes amplification of an allelic form to which the primer exhibits perfect complementarity. See Gibbs, *Nucleic Acid Res.* 17, 2427-2448 (1989). This primer is used in  
10 conjunction with a second primer which hybridizes at a distal site. Amplification proceeds from the two-primers, resulting in a detectable product which indicates the particular allelic form is present. A control is usually performed with a second pair of primers, one of which shows  
15 a single base mismatch at the polymorphic site and the other of which exhibits perfect complementarity to a distal site. The single-base mismatch prevents amplification and no detectable product is formed. The method works best when the mismatch is included in the 3'-most position of  
20 the oligonucleotide aligned with the polymorphism because this position is most destabilizing to elongation from the primer (see, e.g., WO 93/22456).

### 4. Direct-Sequencing

The direct analysis of the sequence of polymorphisms of  
25 the present invention can be accomplished using either the dideoxy chain termination method or the Maxam Gilbert method (see Sambrook *et al.*, *Molecular Cloning, A Laboratory Manual* (2nd Ed., CSHP, New York 1989); Zyskind *et al.*, *Recombinant DNA Laboratory Manual*, (Acad. Press,  
30 1988)).

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## 5. Denaturing Gradient Gel Electrophoresis

Amplification products generated using the polymerase chain reaction can be analyzed by the use of denaturing gradient gel electrophoresis. Different alleles can be identified based on the different sequence-dependent melting properties and electrophoretic migration of DNA in solution. Erlich, ed., *PCR Technology, Principles and Applications for DNA Amplification*, (W.H. Freeman and Co, New York, 1992), Chapter 7.

## 10 6. Single-Strand Conformation Polymorphism Analysis

Alleles of target sequences can be differentiated using single-strand conformation polymorphism analysis, which identifies base differences by alteration in electrophoretic migration of single stranded PCR products, as described in Orita et al., *Proc. Nat. Acad. Sci.* 86, 2766-2770 (1989). Amplified PCR products can be generated as described above, and heated or otherwise denatured, to form single stranded amplification products. Single-stranded nucleic acids may refold or form secondary structures which are partially dependent on the base sequence. The different electrophoretic mobilities of single-stranded amplification products can be related to base-sequence differences between alleles of target sequences.

## 25 III. Methods of Use

After determining polymorphic form(s) present in an individual at one or more polymorphic sites, this information can be used in a number of methods.

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## A. Forensics

Determination of which polymorphic forms occupy a set of polymorphic sites in an individual identifies a set of polymorphic forms that distinguishes the individual. See  
5 generally National Research Council, *The Evaluation of Forensic DNA Evidence* (Eds. Pollard et al., National Academy Press, DC, 1996). The more sites that are analyzed, the lower the probability that the set of polymorphic forms in one individual is the same as that in  
10 an unrelated individual. Preferably, if multiple sites are analyzed, the sites are unlinked. Thus, polymorphisms of the invention are often used in conjunction with - polymorphisms in distal genes. Preferred polymorphisms for use in forensics are biallelic because the population  
15 frequencies of two polymorphic forms can usually be determined with greater accuracy than those of multiple polymorphic forms at multi-allelic loci.

The capacity to identify a distinguishing or unique set of forensic markers in an individual is useful for forensic  
20 analysis. For example, one can determine whether a blood sample from a suspect matches a blood or other tissue sample from a crime scene by determining whether the set of polymorphic forms occupying selected polymorphic sites is the same in the suspect and the sample. If the set of  
25 polymorphic markers does not match between a suspect and a sample, it can be concluded (barring experimental error) that the suspect was not the source of the sample. If the set of markers does match, one can conclude that the DNA from the suspect is consistent with that found at the crime  
30 scene. If frequencies of the polymorphic forms at the loci tested have been determined (e.g., by analysis of a suitable population of individuals), one can perform a statistical analysis to determine the probability that a

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match of suspect and crime scene sample would occur by chance.

$p(\text{ID})$  is the probability that two random individuals have the same polymorphic or allelic form at a given polymorphic site. In biallelic loci, four genotypes are possible: AA, AB, BA, and BB. If alleles A and B occur in a haploid genome of the organism with frequencies  $x$  and  $y$ , the probability of each genotype in a diploid organism is (see WO 95/12607):

- 10 Homozygote:  $p(\text{AA}) = x^2$   
 Homozygote:  $p(\text{BB}) = y^2 = (1-x)^2$   
 Single Heterozygote:  $p(\text{AB}) = p(\text{BA}) = xy = x(1-x)$   
 Both Heterozygotes:  $p(\text{AB}+\text{BA}) = 2xy = 2x(1-x)$

- The probability of identity at one locus (i.e., the probability that two individuals, picked at random from a population will have identical polymorphic forms at a given locus) is given by the equation:
- 15  $p(\text{ID}) = (x^2)^2 + (2xy)^2 + (y^2)^2$ .

- These calculations can be extended for any number of polymorphic forms at a given locus. For example, the probability of identity  $p(\text{ID})$  for a 3-allele system where the alleles have the frequencies in the population of  $x$ ,  $y$  and  $z$ , respectively, is equal to the sum of the squares of the genotype frequencies:

25  $p(\text{ID}) = x^4 + (2xy)^2 + (2yz)^2 + (2xz)^2 + z^4 + y^4$

In a locus of  $n$  alleles, the appropriate binomial expansion is used to calculate  $p(\text{ID})$  and  $p(\text{exc})$ .

- The cumulative probability of identity ( $\text{cum } p(\text{ID})$ ) for each of multiple unlinked loci is determined by multiplying the probabilities provided by each locus.

30  $\text{cum } p(\text{ID}) = p(\text{ID1})p(\text{ID2})p(\text{ID3})\dots p(\text{IDn})$

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The cumulative probability of non-identity for  $n$  loci (i.e. the probability that two random individuals will be different at 1 or more loci) is given by the equation:

$$\text{cum } p(\text{nonID}) = 1 - \text{cum } p(\text{ID}).$$

- 5 If several polymorphic loci are tested, the cumulative probability of non-identity for random individuals becomes very high (e.g., one billion to one). Such probabilities can be taken into account together with other evidence in determining the guilt or innocence of the suspect.

10 B. Paternity Testing

The object of paternity testing is usually to determine whether a male is the father of a child. In most cases, the mother of the child is known and thus, the mother's contribution to the child's genotype can be traced.

- 15 Paternity testing investigates whether the part of the child's genotype not attributable to the mother is consistent with that of the putative father. Paternity testing can be performed by analyzing sets of polymorphisms in the putative father and the child.

- 20 If the set of polymorphisms in the child attributable to the father does not match the set of polymorphisms of the putative father, it can be concluded, barring experimental error, that the putative father is not the real father. If the set of polymorphisms in the child attributable to the father does match the set of  
25 polymorphisms of the putative father, a statistical calculation can be performed to determine the probability of coincidental match.

- 30 The probability of parentage exclusion (representing the probability that a random male will have a polymorphic form at a given polymorphic site that makes him

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incompatible as the father) is given by the equation (see WO 95/12607):

$$p(\text{exc}) = xy(1-xy)$$

where x and y are the population frequencies of alleles A and B of a biallelic polymorphic site.

(At a triallelic site  $p(\text{exc}) = xy(1-xy) + yz(1-yz) + xz(1-xz) + 3xyz(1-xyz)$ ), where x, y and z are the respective population frequencies of alleles A, B and C).

The probability of non-exclusion is

$$p(\text{non-exc}) = 1 - p(\text{exc})$$

The cumulative probability of non-exclusion (representing the value obtained when n loci are used) is thus:

$$\text{cum } p(\text{non-exc}) = p(\text{non-exc1})p(\text{non-exc2})p(\text{non-exc3}) \dots$$

$$p(\text{non-excn})$$

The cumulative probability of exclusion for n loci (representing the probability that a random male will be excluded)

$$\text{cum } p(\text{exc}) = 1 - \text{cum } p(\text{non-exc}).$$

If several polymorphic loci are included in the analysis, the cumulative probability of exclusion of a random male is very high. This probability can be taken into account in assessing the liability of a putative father whose polymorphic marker set matches the child's polymorphic marker set attributable to his/her father.

### C. Correlation of Polymorphisms with Phenotypic Traits

The polymorphisms of the invention may contribute to the phenotype of an organism in different ways. Some polymorphisms occur within a protein coding sequence and contribute to phenotype by affecting protein structure. The effect may be neutral, beneficial or detrimental, or both beneficial and detrimental, depending on the



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circumstances. For example, a heterozygous sickle cell mutation confers resistance to malaria, but a homozygous sickle cell mutation is usually lethal. Other polymorphisms occur in noncoding regions but may exert phenotypic effects indirectly via influence on replication, transcription, and translation. A single polymorphism may affect more than one phenotypic trait. Likewise, a single phenotypic trait may be affected by polymorphisms in different genes. Further, some polymorphisms predispose an individual to a distinct mutation that is causally related to a certain phenotype.

Phenotypic traits include diseases that have known but hitherto unmapped genetic components (e.g., agammaglobulinemia, diabetes insipidus, Lesch-Nyhan syndrome, muscular dystrophy, Wiskott-Aldrich syndrome, Fabry's disease, familial hypercholesterolemia, polycystic kidney disease, hereditary spherocytosis, von Willebrand's disease, tuberous sclerosis, hereditary hemorrhagic telangiectasia, familial colonic polyposis, Ehlers-Danlos syndrome, osteogenesis imperfecta, and acute intermittent porphyria). Phenotypic traits also include symptoms of, or susceptibility to, multifactorial diseases of which a component is or may be genetic, such as autoimmune diseases, inflammation, cancer, diseases of the nervous system, and infection by pathogenic microorganisms. Some examples of autoimmune diseases include rheumatoid arthritis, multiple sclerosis, diabetes (insulin-dependent and non-independent), systemic lupus erythematosus and Graves disease. Some examples of cancers include cancers of the bladder, brain, breast, colon, esophagus, kidney, leukemia, liver, lung, oral cavity, ovary, pancreas, prostate, skin, stomach and uterus. Phenotypic traits also include characteristics such as longevity, appearance

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(e.g., baldness, obesity), strength, speed, endurance, fertility, and susceptibility or receptivity to particular drugs or therapeutic treatments.

Correlation is performed for a population of  
5 individuals who have been tested for the presence or  
absence of a phenotypic trait of interest and for  
polymorphic markers sets. To perform such analysis, the  
presence or absence of a set of polymorphisms (i.e. a  
polymorphic set) is determined for a set of the  
10 individuals, some of whom exhibit a particular trait, and  
some of which exhibit lack of the trait. The alleles of  
each polymorphism of the set are then reviewed to determine  
whether the presence or absence of a particular allele is  
associated with the trait of interest. Correlation can be  
15 performed by standard statistical methods such as a  $\chi^2$ -  
squared test and statistically significant correlations  
between polymorphic form(s) and phenotypic characteristics  
are noted. For example, it might be found that the  
presence of allele A1 at polymorphism A correlates with  
20 heart disease. As a further example, it might be found  
that the combined presence of allele A1 at polymorphism A  
and allele B1 at polymorphism B correlates with increased  
milk production of a farm animal.

Such correlations can be exploited in several ways. In  
25 the case of a strong correlation between a set of one or  
more polymorphic forms and a disease for which treatment is  
available, detection of the polymorphic form set in a human  
or animal patient may justify immediate administration of  
treatment, or at least the institution of regular  
30 monitoring of the patient. Detection of a polymorphic form  
correlated with serious disease in a couple contemplating a  
family may also be valuable to the couple in their  
reproductive decisions. For example, the female partner

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might elect to undergo in vitro fertilization to avoid the possibility of transmitting such a polymorphism from her husband to her offspring. In the case of a weaker, but still statistically significant correlation between a polymorphic set and human disease, immediate therapeutic intervention or monitoring may not be justified.

Nevertheless, the patient can be motivated to begin simple life-style changes (e.g., diet, exercise) that can be accomplished at little cost to the patient but confer potential benefits in reducing the risk of conditions to which the patient may have increased susceptibility by virtue of variant alleles. Identification of a polymorphic set in a patient correlated with enhanced receptiveness to one of several treatment regimes for a disease indicates that this treatment regime should be followed.

For animals and plants, correlations between characteristics and phenotype are useful for breeding for desired characteristics. For example, Beitz et al., US 5,292,639 discuss use of bovine mitochondrial polymorphisms in a breeding program to improve milk production in cows. To evaluate the effect of mtDNA D-loop sequence polymorphism on milk production, each cow was assigned a value of 1 if variant or 0 if wildtype with respect to a prototypical mitochondrial DNA sequence at each of 17 locations considered. Each production trait was analyzed individually with the following animal model:

$$Y_{ij\text{kn}p} = \mu + YS_i + P_j + X_k + \beta_1 + \dots \beta_{17} + PE_n + a_n + e_p$$

where  $Y_{ij\text{kn}p}$  is the milk, fat, fat percentage, SNF, SNF percentage, energy concentration, or lactation energy record;  $\mu$  is an overall mean;  $YS_i$  is the effect common to all cows calving in year-season;  $X_k$  is the effect common to cows in either the high or average selection line;  $\beta_1$  to  $\beta_{17}$  are the binomial regressions of production record on mtDNA

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D-loop sequence polymorphisms;  $PE_n$  is permanent environmental effect common to all records of cow  $n$ ;  $a_n$  is effect of animal  $n$  and is composed of the additive genetic contribution of sire and dam breeding values and a  
5 Mendelian sampling effect; and  $e_p$  is a random residual. It was found that eleven of seventeen polymorphisms tested influenced at least one production trait. Bovines having the best polymorphic forms for milk production at these eleven loci are used as parents for breeding the next  
10 generation of the herd.

#### D. Genetic Mapping of Phenotypic Traits

The previous section concerns identifying correlations between phenotypic traits and polymorphisms that directly or indirectly contribute to those traits. The present  
15 section describes identification of a physical linkage between a genetic locus associated with a trait of interest and polymorphic markers that are not associated with the trait, but are in physical proximity with the genetic locus responsible for the trait and co-segregate with it. Such  
20 analysis is useful for mapping a genetic locus associated with a phenotypic trait to a chromosomal position, and thereby cloning gene(s) responsible for the trait. See Lander et al., *Proc. Natl. Acad. Sci. (USA)* 83, 7353-7357 (1986); Lander et al., *Proc. Natl. Acad. Sci. (USA)* 84,  
25 2363-2367 (1987); Donis-Keller et al., *Cell* 51, 319-337 (1987); Lander et al., *Genetics* 121, 185-199 (1989)). Genes localized by linkage can be cloned by a process known as directional cloning. See Wainwright, *Med. J. Australia* 159, 170-174 (1993); Collins, *Nature Genetics* 1, 3-6  
30 (1992).

Linkage studies are typically performed on members of a family. Available members of the family are characterized

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for the presence or absence of a phenotypic trait and for a set of polymorphic markers. The distribution of polymorphic markers in an informative meiosis is then analyzed to determine which polymorphic markers co-

5 segregate with a phenotypic trait. See, e.g., Kerem et al., *Science* 245, 1073-1080 (1989); Monaco et al., *Nature* 316, 842 (1985); Yamoka et al., *Neurology* 40, 222-226 (1990); Rossiter et al., *FASEB Journal* 5, 21-27 (1991).

Linkage is analyzed by calculation of LOD (log of the  
10 odds) values. A lod value is the relative likelihood of obtaining observed segregation data for a marker and a genetic locus when the two are located at a recombination fraction  $\theta$ , versus the situation in which the two are not linked, and thus segregating independently (Thompson &  
15 Thompson, *Genetics in Medicine* (5th ed, W.B. Saunders Company, Philadelphia, 1991); Strachan, "Mapping the human genome" in *The Human Genome* (BIOS Scientific Publishers Ltd, Oxford), Chapter 4). A series of likelihood ratios are calculated at various recombination fractions ( $\theta$ ),  
20 ranging from  $\theta = 0.0$  (coincident loci) to  $\theta = 0.50$  (unlinked). Thus, the likelihood at a given value of  $\theta$  is: probability of data if loci linked at  $\theta$  to probability of data if loci unlinked. The computed likelihoods are usually expressed as the  $\log_{10}$  of this ratio (i.e., a lod  
25 score). For example, a lod score of 3 indicates 1000:1 odds against an apparent observed linkage being a coincidence. The use of logarithms allows data collected from different families to be combined by simple addition. Computer programs are available for the calculation of lod  
30 scores for differing values of  $\theta$  (e.g., LIPED, MLINK (Lathrop, *Proc. Nat. Acad. Sci. (USA)* 81, 3443-3446 (1984)). For any particular lod score, a recombination fraction may be determined from mathematical tables. See

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Smith *et al.*, *Mathematical tables for research workers in human genetics* (Churchill, London, 1961); Smith, *Ann. Hum. Genet.* 32, 127-150 (1968). The value of  $\theta$  at which the lod score is the highest is considered to be the best estimate  
5 of the recombination fraction.

Positive lod score values suggest that the two loci are linked, whereas negative values suggest that linkage is less likely (at that value of  $\theta$ ) than the possibility that the two loci are unlinked. By convention, a combined lod  
10 score of +3 or greater (equivalent to greater than 1000:1 odds in favor of linkage) is considered definitive evidence that two loci are linked. Similarly, by convention, a negative lod score of -2 or less is taken as definitive evidence against linkage of the two loci being compared.  
15 Negative linkage data are useful in excluding a chromosome or a segment thereof from consideration. The search focuses on the remaining non-excluded chromosomal locations.

#### IV. Modified Polypeptides and Gene Sequences

20 The invention further provides variant forms of nucleic acids and corresponding proteins. The nucleic acids comprise one of the sequences described in the Table, column 8, in which the polymorphic position is occupied by one of the alternative bases for that position. Some  
25 nucleic acids encode full-length variant forms of proteins. Similarly, variant proteins have the prototypical amino acid sequences encoded by nucleic acid sequences shown in the Table, column 8, (read so as to be in-frame with the full-length coding sequence of which it is a component)  
30 except at an amino acid encoded by a codon including one of the polymorphic positions shown in the Table. That position is occupied by the amino acid coded by the

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corresponding codon in any of the alternative forms shown in the Table.

Variant genes can be expressed in an expression vector in which a variant gene is operably linked to a native or other promoter. Usually, the promoter is a eukaryotic promoter for expression in a mammalian cell. The transcription regulation sequences typically include a heterologous promoter and optionally an enhancer which is recognized by the host. The selection of an appropriate promoter, for example trp, lac, phage promoters, glycolytic enzyme promoters and tRNA promoters, depends on the host selected. Commercially available expression vectors can be used. Vectors can include host-recognized replication systems, amplifiable genes, selectable markers, host sequences useful for insertion into the host genome, and the like.

The means of introducing the expression construct into a host cell varies depending upon the particular construction and the target host. Suitable means include fusion, conjugation, transfection, transduction, electroporation or injection, as described in Sambrook, *supra*. A wide variety of host cells can be employed for expression of the variant gene, both prokaryotic and eukaryotic. Suitable host cells include bacteria such as *E. coli*, yeast, filamentous fungi, insect cells, mammalian cells, typically immortalized, e.g., mouse, CHO, human and monkey cell lines and derivatives thereof. Preferred host cells are able to process the variant gene product to produce an appropriate mature polypeptide. Processing includes glycosylation, ubiquitination, disulfide bond formation, general post-translational modification, and the like.

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The protein may be isolated by conventional means of protein biochemistry and purification to obtain a substantially pure product, i.e., 80, 95 or 99% free of cell component contaminants, as described in Jacoby,

5 *Methods in Enzymology* Volume 104, Academic Press, New York (1984); Scopes, *Protein Purification, Principles and Practice*, 2nd Edition, Springer-Verlag, New York (1987); and Deutscher (ed), *Guide to Protein Purification, Methods in Enzymology*, Vol. 182 (1990). If the protein is  
10 secreted, it can be isolated from the supernatant in which the host cell is grown. If not secreted, the protein can be isolated from a lysate of the host cells.

The invention further provides transgenic nonhuman animals capable of expressing an exogenous variant gene  
15 and/or having one or both alleles of an endogenous variant gene inactivated. Expression of an exogenous variant gene is usually achieved by operably linking the gene to a promoter and optionally an enhancer, and microinjecting the construct into a zygote. See Hogan et al., "Manipulating  
20 the Mouse Embryo, A Laboratory Manual," Cold Spring Harbor Laboratory. Inactivation of endogenous variant genes can be achieved by forming a transgene in which a cloned variant gene is inactivated by insertion of a positive selection marker. See Capecchi, *Science* 244, 1288-1292  
25 (1989). The transgene is then introduced into an embryonic stem cell, where it undergoes homologous recombination with an endogenous variant gene. Mice and other rodents are preferred animals. Such animals provide useful drug screening systems.

30 In addition to substantially full-length polypeptides expressed by variant genes, the present invention includes biologically active fragments of the polypeptides, or analogs thereof, including organic molecules which simulate



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the interactions of the peptides. Biologically active fragments include any portion of the full-length polypeptide which confers a biological function on the variant gene product, including ligand binding, and  
5 antibody binding. Ligand binding includes binding by nucleic acids, proteins or polypeptides, small biologically active molecules, or large cellular structures.

Polyclonal and/or monoclonal antibodies that specifically bind to variant gene products but not to  
10 corresponding prototypical gene products are also provided. Antibodies can be made by injecting mice or other animals with the variant gene product or synthetic peptide-fragments thereof. Monoclonal antibodies are screened as are described, for example, in Harlow & Lane, *Antibodies, A*  
15 *Laboratory Manual*, Cold Spring Harbor Press, New York (1988); Goding, *Monoclonal antibodies, Principles and Practice* (2d ed.) Academic Press, New York (1986). Monoclonal antibodies are tested for specific immunoreactivity with a variant gene product and lack of  
20 immunoreactivity to the corresponding prototypical gene product. These antibodies are useful in diagnostic assays for detection of the variant form, or as an active ingredient in a pharmaceutical composition.

#### V. Kits

25 The invention further provides kits comprising at least one allele-specific oligonucleotide as described above. Often, the kits contain one or more pairs of allele-specific oligonucleotides hybridizing to different forms of a polymorphism. In some kits, the allele-specific  
30 oligonucleotides are provided immobilized to a substrate. For example, the same substrate can comprise allele-specific oligonucleotide probes for detecting at least 10,

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100 or all of the polymorphisms shown in the Table. Optional additional components of the kit include, for example, restriction enzymes, reverse-transcriptase or polymerase, the substrate nucleoside triphosphates, means  
5 used to label (for example, an avidin-enzyme conjugate and enzyme substrate and chromogen if the label is biotin), and the appropriate buffers for reverse transcription, PCR, or hybridization reactions. Usually, the kit also contains instructions for carrying out the methods.

10 The following Examples are offered for the purpose of illustrating the present invention and are not to be construed to limit the scope of this invention. The teachings of all references cited herein are hereby incorporated herein by reference.

#### 15 EXAMPLES

The polymorphisms shown in the Table were identified by resequencing of target sequences from three to ten unrelated individuals of diverse ethnic and geographic backgrounds by hybridization to probes immobilized to  
20 microfabricated arrays or conventional sequencing. The strategy and principles for design and use of such arrays are generally described in WO 95/11995. The strategy provides arrays of probes for analysis of target sequences showing a high degree of sequence identity to the reference  
25 sequences of the fragments shown in the Table, column 1. The reference sequences were sequence-tagged sites (STSs) developed in the course of the Human Genome Project (see, e.g., *Science* 270, 1945-1954 (1995); *Nature* 380, 152-154 (1996)). Most STS's ranged from 100 bp to 300 bp in size.

30 A typical probe array used in this analysis has two groups of four sets of probes that respectively tile both strands of a reference sequence. A first probe set

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comprises a plurality of probes exhibiting perfect complementarily with one of the reference sequences. Each probe in the first probe set has an interrogation position that corresponds to a nucleotide in the reference sequence.

5 That is, the interrogation position is aligned with the corresponding nucleotide in the reference sequence, when the probe and reference sequence are aligned to maximize complementarily between the two. For each probe in the first set, there are three corresponding probes from three

10 additional probe sets. Thus, there are four probes corresponding to each nucleotide in the reference sequence. The probes from the three additional probe sets are identical to the corresponding probe from the first probe set except at the interrogation position, which occurs in

15 the same position in each of the four corresponding probes from the four probe sets, and is occupied by a different nucleotide in the four probe sets. In the present analysis, probes were 25 nucleotides long. Arrays tiled for multiple different references sequences were included

20 on the same substrate.

Multiple target sequences from an individual were amplified from human genomic DNA using primers for the fragments indicated in the listed Web sites. The amplified target sequences were fluorescently labelled during or

25 after PCR. The labelled target sequences were hybridized with a substrate bearing immobilized arrays of probes. The amount of label bound to probes was measured. Analysis of the pattern of label revealed the nature and position of differences between the target and reference sequence. For

30 example, comparison of the intensities of four corresponding probes reveals the identity of a corresponding nucleotide in the target sequences aligned with the interrogation position of the probes. The

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corresponding nucleotide is the complement of the nucleotide occupying the interrogation position of the probe showing the highest intensity (see WO 95/11995). The existence of a polymorphism is also manifested by

5 differences in normalized hybridization intensities of probes flanking the polymorphism when the probes hybridized to corresponding targets from different individuals. For example, relative loss of hybridization intensity in a "footprint" of probes flanking a polymorphism signals a

10 difference between the target and reference (i.e., a polymorphism) (see EP 717,113). Additionally, hybridization intensities for corresponding targets from different individuals can be classified into groups or clusters suggested by the data, not defined *a priori*, such

15 that isolates in a give cluster tend to be similar and isolates in different clusters tend to be dissimilar. Hybridizations to samples from different individuals were performed separately. The Table summarizes the data obtained for target sequences in comparison with a

20 reference sequence for the individuals tested.

From the foregoing, it is apparent that the invention includes a number of general uses that can be expressed concisely as follows. The invention provides for the use of any of the nucleic acid segments described above in the

25 diagnosis or monitoring of diseases, such as cancer, inflammation, heart disease, diseases of the CNS, and susceptibility to infection by microorganisms. The invention further provides for the use of any of the nucleic acid segments in the manufacture of a medicament

30 for the treatment or prophylaxis of such diseases. The invention further provides for the use of any of the DNA segments as a pharmaceutical.

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All publications and patent applications cited above are incorporated by reference in their entirety for all purposes to the same extent as if each individual publication or patent application were specifically and  
5 individually indicated to be so incorporated by reference.

1	2	3	4	5	6	7
						TGTGAACTCCACTTGAAAGCCAAAGAAAGAACTCAGACTTAAACACATGCCAGTTGGGAAGGCTCT
						GAAAACTCAGTGCATAATAGGAACACTTGAGACTAATGAAGAGAGAGAGTTGAGACCAATCTTTATTT
						GTAAGGCAAACTACTGAATAAACAGTTGAAAGGAAAGACATTGGAAAAAGCTTTTGAGGATAATGT
WI-7070	226	C T	---			TACTAGACTTTATGCCATGGTCTTTTC/TTAGTTTAAATGCTGTCTCTGTCTGTCAG
						AAGCCATTGACGTAAACATCTCAGAGGTTATTTGCATGGATTGACTCCTGGGACAAAAGGAC[G/C]AA
						AAACACTCTTCTGTGGATATCTGTGCAGATAGATGACCCAAAGATCAGATGCTACCCAGATGTGTTTT
						GATAATACATAAGCCCCCTAGGATTTAGATACAATCTTTGAAAGAAACTGAGACAGATAATTCTGAATT
WI-10744	61	G C	---			AAATGAGGTAAAGTTTCAGGCACCTCA
						GGGCAAAATTACCAGCAAAAAGTCAAAATTACCAGCATCAAAGTCAGGTGCAAAAGGAGGTAGAACAA
						TTACAGTAACTATGTCAATCTTTTGTATATTAGTATTATCTGCCAAATGCCTAGAATA[C/TTAGTG
						GGTCCCTAATAGTATTAGTTCCTTTTCTCCCTTTTCTCAATCTCTGAATTTATTTTATACTTAA
WI-9975	126	C T	---			GGGATTAGTTACCACCAAAATGTGTAIGTATCAATTTGATCTTACTGAA
						GCTAGGTTTGTCTTGTGGTGTCTCACTAGACTTGAGATGACTTGATTTACAGTAATCCCTATGT
						GATGTAAGTACTAGTACACCTTCCCTCTCCGCAATCCAGCTCCAGGTTTCAGAAAGTATGCCACAC
						TCAACCCCTTCTCTCCAGTTCACTCTGATTAATTTCTCCCATATTAATTCAAAGGAGTGGACAGGT
WI-8010	247	G T	---			CCCTGGCTGAAAGAAATAAGAGATCCCAAGTGGTGGGG[G/T]CTT
						GCCCCGCCCTATCTTTTAAATTTAACTTGTATCTTTGGTGTCTCCATCCTAGGATTCTGCCTTATAAT
						CTTTGTCTGTCTGTGTA[G/C]ATTACCTGATTCTACTTTTGATACAAAGGCTGATGGCTCACAATGT
						AGTAGTGCCAACTTCTCAGGCTCTTTGAATTTTCTCTGCTATTGAGGACATTTCCACTTTCTACTTA
WI-5222b	85	G C	---			TCTCGACTCTATAACAACCTCCAACAGAA
						GCCCCGCCCTATCTTTTAAATTTAACTTGTATCTTTGGTGTCTCCATCCTAIG[C]GATTCTGCCTTAT
						AATCTTTGTCTGTCTGTAGATTACCTGATTCTACTTTTGATACAAAGGCTGATGGCTCACAATGT
						AGTAGTGCCAACTTCTCAGGCTCTTTGAATTTTCTCTGCTATTGAGGACATTTCCACTTTCTACTTA
WI-5222	52	G C	---			TCTCGACTCTATAACAACCTCCAACAGAA
						TATGCACCTCCACAAAGCGGATATAATTTAAAGTTTTTTTCAATTAGAAATAAATGTATAAAAAATAA
						ATATGTTATTATAGGCATTTATTACTAACTATAGTCTCTTTGGAAAGGAACACCCCAACCAATACTT
						ATAAAGTACATGTAATTTATAGTAACATATTTACTATATACATATGAAAAAATCATATTCTCACA
WI-8007	242	C A	---			GAAGAGCTGAACAGACATTCCAGGATACGACTGTGGAC[C/A]AGCTGCTG
						TCAGTTGCAAAAATTGCTGCCATAAACATGCTTTGCTTATCTCTGTGCATATGTATGTGTTTGTAG
						TCTATATTACACATATGAGTGAAATTTCTGTTGGGCGATGGGAAATACATCTTTATGAGACATTGA
						ACTGCTCACCACACTATCATAGTATCCATTTAAACAGACCAACAATGTATAAGAAATCCCTTTGTTTAC
WI-9823	97	C T	---			ATGCTTTCCAATCTGATTTTGTATGACTATTGTATGCACAGTTGGATCACC

WI-9651b	105 A T ---	---	---	TCCTACATTCTATGGACAACCTCCATGCCCTTGCACATGCTGATCCCTCCCTGGAATCCCTTCCT ACTTGCTCATGTACAAATTTCTGCTCGTCCCTTCA/Π/ΓGGGCAGCTTGAAGCCCTCCCTTTAGAC ACCTCTACAGGTACAGCCGACCATGCCCTACCTCCATGCGACTGCCAGGGACCCCTTATAGGCCTCTG TCCTTAAACCTGTAATGGTATATTAATCCTTGGTGTGAATGTCCTC
WI-9651	139 T C ---	---	---	TCCTACATTCTATGGACAACCTCCATGCCCTTGCACATGCTGATCCCTCCCTGGAATCCCTTCCT ACTTGCTCATGTACAAATTTCTGCTCGTCCCTTCAAGGGCAGCTTGAAGCCCTCCCTTTAGACACCT CT/CJACAGGTACAGCCGACCATGCCCTACCTCCATGCGACTGCCAGGGACCCCTTATAGGCCTCTGT CTTAAACCTGTAATGGTATATTAATCCCTGGTGTGAATGTCCTC
WI-7676b	309 A C ---	---	---	GTGACCTTCCTGCAGCGTGGAGATGGACATCCTTGCTGCTGGGACTTGGCCCTGCTATTTATTTTG TATTTATGCTTAATCTCTCCACTGATGCATCCTCCAAGGGTAGATGGGAGGGTCTGTGTGAAGGG GCCGGCTCTCTGGTGCCTGCTGGTTCAGGGGCGCAGGAAGCGTGTGACTGCAGCTTCTGCTGGTGC TCCCCCGTCTCCTGGAGGCGAGTATAGGAGAGAGAGCAAGGATTGAGT
WI-7676	139 C T ---	---	---	GTGACCTTCCTGCAGCGTGGAGATGGACATCCTTGCTGCTGGGACTTGGCCCTGCTATTTATTTTG TATTTATGCTTAATCTCTCCACTGATGCATCCTCCAAGGGTAGATGGGAGGGTCTGTGTGAAGGG GC/C/ΓGGCTTCTCTGGTGCCTGCTGGTTCAGGGGCGCAGGAAGCGTGTGACTGCAGCTTCTGCTG GTGCTCCCCCGTCTCCTGGAGGCGAGTATAGGAGAGAGCAAGGATT
WI-10072	105 G A ---	---	---	CATTATCTTGCTGGTCTGTTCAATTCACCTTCTCCTCCTCCAATGAAGAGGATATTTAAGCATCAT CATCTGGCCCTTTTGGAGTTTGAATATTTTGTG/ΓG/ΓGACTCCTATGCACATGATAAATTTGTTA TGCTTGCTCTATCTATCTTTTGTATAGGAGTTTGGCCATGACCCCTTATGAGGAGAAAGGGA TCACCCCTTTTGGCTCTACAACCTTATAGATATTTAAATATCTTT
WI-9986	42 T C ---	---	---	TTGGTGTGAACCTCAGAATATAGGGAAAAAAGACAATTTGAA/Γ/A/CΓGTACCCAGGAAACAAGAG CCCTGCACTTGACTCCAAAGGAGTTCTATTTCTGGCTGTTCCAGACTTTATTGTATCTTGAGAA GAGAACTGTTTCCCTCTAAATCAGTTTCATCATCTGTATCCAGGGTAGTACTCACAAGAACATGTCA ATATCAATAGCATGCATATGGGGTGTGGATTCTTAGAACTTATTGCAATT
WI-7041	174 C A ---	---	---	GTCTATTGCAGGAGAAACGTCCCTTGCCACTCCCACTCTCATCAGGCCAAGTGGAGGACTGGCCAGA GGCCCTGCACATGCAAACTCCAGTCCCTGCCCTTCAGAGAGCTGAAAGGGTCCCTCGGTCTTTATTT CAGGGCTTGCATGCGCTCTATTCGCCCTCTCTC/Γ/C/ΓCCACCTTCTTTGGAGCAAGGAGATGC AGCTGTATTGTGTAAACAAGCTCATTTGTACAGTGTCTGTTCATGTAATAA
WI-7224	134 T C ---	---	---	ATAAACCCCTTGTTGATGTATCACCCCAACTCACTAATATCAACTTATGTGCTATCAGATATCCTCTCT ACCTCAGCTTATTTGAAGAAAAATCCTAAACATCAATATCTTCATCCATAAAAATGTCAGCATTT /CJATTAaaaaaacaataaacTTTTAAAGAAACATAAGGACACATTTTCAAAATTAATAAAAAATAAG GCATTTAAGGATGGCCTGTGATTATCTTGGGAAGCAGAGTATTGCTAG

WI-10826	132 A C ---	---	TCTATTGCAATTCACAGTAGCCCCCATGAAGTAGGTAGGTATAACCAAGCCTCTATTTTAAACATGAGAAGAT GGAGGCCCTTTCCAAATGGACTAAGTAATGTGCTCAGGTTTTCTTAATAAGCAAAAGACCTGCAJAVC JCCCTGGCTTCTGACTCCAAAGCTTATCCCTTCTCATGCTGTGCTGACGCCAGGACCCCCCATGGCGCA GAAAGCCCAGCCTCTCCATCCCCCAC
TIGR- A004S25	145 G A ---	---	AGATCTGCCATTAGTATTATTCCTTTGAAGATACCTTTGGAGATTCATTTTCTTGAGTGGCACTGCAT GCTCATTGAGTGAAACCTTGTTGGGTATAGAAATGGAATGGAGAGTTTCAAAACAGCTTTGCTGAAAC TGACTTTGGG/GA/CTCCAGACTTCACTGTCTTGGCATTGAAACCATCACCTGGTTTGCACTTCTTC ATGACTGAGGTTAACTTAAATGACTGAGGTTAACTTAAAC
WI-1021	24 A T ---	---	AAACACACAGAATCATCAAAGCACIATJATCTGTGTTTGAGATAAATGATAGTCTGAGTCACCTATG TAAGAAGTAACCTCTGAAATAGTAGGATAGTATTATCATTTCCCTGTAATAGATTCACTCTCAGCAAT TGGTCTGTTTTCATTTCTATGAAACTCTCCGTACTGTAAATTTTCATTTCTATGAAACTCCCCCATACTGT AATTGGACAGTTTTGGTTCCAC
WI-4687	121 G T ---	---	TAGTATGCACTGCCATGGTAAGGACTTTGATCACTAGGAAATAAGAACACATTTGAATGGTCTTGTCO TTTCAATAAAAGAGTGACATGATTGAACATGTGTTTTAGATAAAGGGCCTT[G/T]GCAGGAGTGT TTAGGATGAAGAGAGAGAGATTAAAGGAAGATCAGGAAGAAAGTAGCAATGGAAATGAAATAAG GAGGCCCTGAGATCCACTGGATAATCTAAAAAACCAAGAGAAAGAACTTGAT
WI-4719b	107 T G ---	---	TTCAATTTCCCTTCCAAATCCTTAGGAAATTTACATTTAGGCTAGTGCCTTTGGGTGTGAGCGGATT ATGCTGACGCCATGGGTTCATAAGTGACTTGAGAGT[G/G]ACTGTAGAGGCTACACAGAAATCT CTGTGAGGGGCATGTAATTGATTCAATCAACAATCTGCTTCTCAGATTGCAGAAAAATCAC TGCTCAAAATCCCCACTTGTCACATTCCTTAAGACATTTTCACAGGA
WI-4719	70 G A ---	---	TTCAATTTCCCTTCCAAATCCTTAGGAAATTTACATTTAGGCTAGTGCCTTTGGGTGTGAGCGGATT AT[G/A]TCTGACGCCATGGGTTCATAAGTGACTTGAGAGTACTGTAGAGGCTACACAGAAATCT CTGTGAGGGGCATGTAATTGATTCAATCAACAATCTGCTATGCTTCTCAGATTGCAGAAAAATCAC TGCTCAAAATCCCCACTTGTCACATTCCTTAAGACATTTTCACAGGA
WI-9484b	216 G C ---	---	TCAACACGCTTTTATTGCCACTTCTGGCTCCCCTCGTCCCAGCAAGATTCCTACCTCTTACCCTGTAGG AATACTGAGCTCCGATGCAGGGGAATGGGTGGGGTGTACCACCTTCTCCTCTGCACACTGCCAAGT TAAAGAAAACCCCTGCTTGTGAGAGGGAGGGGCCAGACAGGGGAATTCAGGGCATGTATGGCTC AGTCCCACCTCT[G/C]ACTGCAGAGTATAGGGACCAGGGTCCAAACTTT
WI-9484	178 G A ---	---	TCAACACGCTTTTATTGCCACTTCTGGCTCCCCTCGTCCCAGCAAGATTCCTACCTCTTACCCTGTAGG AATACTGAGCTCCGATGCAGGGGAATGGGTGGGGTGTACCACCTTCTCCTCTGCACACTGCCAAGT TAAAGAAAACCCCTGCTTGTGAGAGGGAGGGGCCAGACAGG[G/G]AAGGAATTCAGGGCATGTATG GCTCAGTCCCACCTCTGACTGCAGAGTATAGGGACCAGGGTCCAAACTTT



WI-7330	207	C T ---	---	AGGATGAAGGAGACACGGGCGAGGAGAACTCTCTTCTGCTAAATCGATAGGAGTCAGTTTTGTCT TAAATGCTGACTACAGCCACTGACATGGTTGGCTGGAATTTCTCTTTAATTTGGCATATAGGTTT GTGACACAAGAGTCATACTTTGGTGGCTAAGTTTACTAAGGAAAAAATAACTGAAAAAGATTAAAAAG TGAGAGCTTTGAAAAAGAGAAATGATAATGCTTCCAAACTGTAGCTGTACACAG
WI-9443	211	G A ---	---	TTAAAAACAGTTCAGGTTGGTGAAGCAGAAAAAGGATGTATTACAATTTAAATGAATCAGTCACATT GCACAAATTAATCCTCTTGGCATCATACAAAACCTGGGTTTTAATGGCAAATGATGACATCATAGCATGA CCAACACTCATGGAAGGCAGCTAGAGTCCATCAGCTCACACCTGAGGGGAAGGCACTGCACCCCA CTGACGAGACGAGACAGAGACCTTGGACTACAGATGACACCATGCCCCACTT
WI-7166	59	C T ---	---	TCTCTAAAAGAGAAAAACAAACCCCTAAGAGACTGAGTTCTGCAAGCATCAGTTCTA[C/T]GGAT CATCAACAAGATTTCCTTGTGCAAAATATTTGACTATTCTGTATCTTTCATCTTCACTAAATTCGTG ATTTCAAGCAGCATCTTCTGGTTAAACTGTTTGTGTGAACAATTTGCGAAAAGAGTCTTCCAAT TAATGCTTTTTATATCTAGGCTACCTGTGGTTAGATTCAAGGCCCCGAG
WI-7259b	189	T C ---	---	GGTTCTTCCCAGGAAGGGGCTTGGCTTGGAACTTCCAGAGAGGAGGGGAGCAATTTAGCC CCACCTGTCTCCATCTGCCCCCTGCAACAGCTGAGGCTGCTCTCTCTGAGTTCTCTGCGCT GCGCAGGCTCCCTGGGAATAGAGCAAGACGTGAGTCTAACCTGGCCACAGT[C/T]GGGGGAGCAG AGCCAGCAGGTGGACAGGTGTTGAGGGGCCCAACTTCCCTGGAGCTC
WI-7259	188	G T ---	---	GGTTCTTCCCAGGAAGGGGCTTGGCTTGGAACTTCCAGAGAGGAGGGGAGCAATTTAGCC CCACCTGTCTCCATCTGCCCCCTGCAACAGCTGAGGCTGCTCTCTCTGAGTTCTCTGCGCT GCGCAGGCTCCCTGGGAATAGAGCAAGACGTGAGTCTAACCTGGCCACAG[C/G,C,T]TTGGGGGAGCA GAGCCAGCAGGTGGACAGGTGTTGAGGGGCCCAACTTCCCTGGAGC
WI-7322	275	A G ---	---	GTACTTTAGGCCTGTGGAGGTGGGCAATTTAGTGGTGACCTTGACCCAGGGTTTCTAACAGATGAC CCTGTGAATCATAATTTAACTGCATATATTTATAGCCAGTCACATTTGCCCTCTCACCCCTATATG GCCATAAACTGCCTAAGCACTCAGGCCTCCCACTCATCAACCCCTTTGACCCAGAGAAAGCACTC TGGTTCTCTATCCCTTTGTCACATAGAGAGTTTGTATGGGGCCTCTGGCTG
WI-7685	46	T C ---	---	TCAGTTCTAGTCTCTCTGGGGCCACACAGAACTCTTTTGGGCTC[T/C]TTTTTCTCCCTCTGGATCA AAGTAGGAGGACCATGGGACCAAGGCTTGGAGCTGAGCCTCTCACCTGTACTCTTCCGAAAAATCCT CTTCTCTGAGGCTGGATCCTAGCCTTATCCTCTGATCTCCATGGCTTCTCTCTCCCTCTGCGGACTC CTGGGTTGAGCTGTGGCTCAGTCCCCCAACAGATGCTTTTCTGTCTC
WI-563	87	G A ---	---	TGTGACCAATTTGTTATTTTAGAGGGTTTAAACAATGGCCTGACTATCACCTGATGGTCGCCAGATTTT CTGGGGGAGGGCCTCCCTT[G/A]CCCTGATCATGTCTACCTAACTGCCTACTCTAACAATACTACTCC TGTGGTATGGGGATCCTAAGCCAAAAAGCTGAATGAACATGTTCTAGCACTACAGAAATCCATACT GCCCTCAGTAAAGGCAATTTTAAATCTCTTTGGATAACCCAGGGCACAT

WI-931c	191	C A ---	---		GACCAGGGACACGAAAGCCACGGAAGCCACAGCCACTAGCCCTGAACCTTGACACCCCTGGAGTT TCTCTCCCTCCCTATCCCTCACCACACCTTCAGTGCTTATCTGCTGTGTCAAAATGATCCTCT GTTGCTGCACGTGTCATTACTGTTGTATGGATTATAATTATTGTCCAAAAAGCC[C/A]CGAGCCTGG TACAGAAAAGGCATGGGAAAGATGTGTCAGA
WI-931b	81	A G ---	---		GACCAGGGACACGAAAGCCACGGAAGCCACAGCCACTAGCCCTGAACCTTGACACCCCTGGAGTT TCTCTCCCTCCCT[A/G]TCCCTCACCACACCTTCAGTGCTTATCTGCTGTGTCAAAATGATCCT TCTGTTGCTGCACGTGTCATTACTGTTGTATGGATTATAATTATTGTCCAAAAAGCCCGAGCCTGG TACAGAAAAGGCATGGGAAAGATGTGTCAGA
WI-931	31	A G ---	---		GACCAGGGACACGAAAGCCACGGAAGCCAC[A/G]GCCACTAGCCCTGAACCTTGACACCCCTGGGA GTTCTCTCCCTCCCTATCCCTCACCACACCTTCAGTGCTTATCTGCTGTGTCAAAATGATCCT TCTGTTGCTGCACGTGTCATTACTGTTGTATGGATTATAATTATTGTCCAAAAAGCCCGAGCCTGG TACAGAAAAGGCATGGGAAAGATGTGTCAGA
WI-10870b	91	C T ---	---		GGATGACTTACCCCAATAGCAGGGTGGGTACATTCATGGGTAAACAACCCCTGGACTGGGATGGCAGA GACATCCACCTTAGCAAAGTGGG[C/T]ACCTACTTAGAGCAGTGAGTACCTGAGTACGACCCCC TTAGCAGCAGAATTACAAGAAATCTTGGGACCTGACTCTGATACAAAATAAGGACATGGGTACGC CTGAGCCACTCTTAAACCATGAACCATCACCATTTAAATAACGTTGCCCCCCC
WI-10870	103	G A ---	---		GGATGACTTACCCCAATAGCAGGGTGGGTACATTCATGGGTAAACAACCCCTGGACTGGGATGGCAGA GACATCCACCTTAGCAAAGTGGGACCTACTTAG[A/G]CAGTGGAGTACCTGAGTACGACCCCC TTAGCAGCAGAATTACAAGAAATCTTGGGACCTGACTCTGATACAAAATAAGGACATGGGTACGC CTGAGCCACTCTTAAACCATGAACCATCACCATTTAAATAACGTTGCCCCCCC
WI-7719b	281	T C ---	---		AGTTTATCTTCCAGATGACCAGCAGTAGACAAATGGATACTGAGCAGAGTCTTAGGTAAAAGTCTT GGGAAATATTTGGGCATTTGGTCTGGCCAGTCTACAATGTCCCAATATCAAGGACAAACCCCTAGC TTCTTAGTGAAGACAATGTACAGTTATCCATTAGATCAAGACTACACGGTCTATGAGCAATAATGTG ATTTCTGGACATTTGCCCATGTATAATCCTCACTGATGATTTCAAGCTAAAGCAA
WI-7719	163	A G ---	---		AGTTTATCTTCCAGATGACCAGCAGTAGACAAATGGATACTGAGCAGAGTCTTAGGTAAAAGTCTT GGGAAATATTTGGGCATTTGGTCTGGCCAGTCTACAATGTCCCAATATCAAGGACAAACCCCTAGC TTCTTAGTGAAGACAATGTACAGTTATCC[A/G]TTAGATCAAGACTACACGGTCTATGAGCAATAAT GTGATTTCTGGACATTTGCCCATGTATAATCCTCACTGATGATTTCAAGCTAAA
WI-10396	72	C A ---	---		GCCTTGGAGTATATCTAAACTGTGGCCTCCACTTTTCATTTTCTTGAACATTGCTATCAACTGGGAA GAGT[C/A]TGTGACTTTATGCCAGTTTCCCTCTCAGATTTTATGACGGTGTCTTTCTTTTGTTA TGCCATTTGAGGGATTGATGTTTCTTAAACTATGAAGTACTGGCTGTCTCTCCATTGCTGTTCAGG TTAACAGCCACCATTTGTAACACTTTGT

WI-10673	94 C G ---	---	TCCCTTTATGCACCCAAAGAGATATTTTAAACACCAATTACGTAGCAGGCCATGGCTCATGGGACC CACCCCGTGGCACTCATGGAGGGG[C/G]TGACAGTTGGAACATATGCAGTGTCCGGCCACACA TCCTGCTGGGCCCCCTACCCCTGCCCAATCAATCCCTGCCAATAAATCCCTGCTTATTGTTTCATCCTG GAGAAATTGAAGGGAGGTCAAGTTGTTTGTCATGATTTGTCAGAGAACCT
WI-7842	57 T C ---	---	CACAGCCATGCCCTTGAGGAGCGGCCACCAGATGCTGAATCCCCTATCCCATTCTG[C/G]TATGAG TCCCAITTTGCCCTTGAATTAGCATTTCTGCTCCCCCAAAAAGAAATGTCATGAAAGCTTTCTTTCCCT ACACACTCTGAGTCTCTGAATGAAGCTGAAGGTCTTAGTACCAGAGCTAGTTTTCAGCTGCTCAGAA TCATCTGAAGAGAGAGACTTAAGATGAAGCAAAATGATTCAGCTCCCTTATA
WI-7721	145 A C ---	---	CTGCCTCATCAGCCCACTGGAGTCCACACTTGAATTTGGGCAGCTACCACGGGTCTGCCATGCTCTGG AGGAGCAAGGGGGCCACATCCCCACCCAGCTGTACCCAGCCCGGGCAGGTGCAGCCCTTCTCTCC TGCTCTGC[C/G]TCTGACTCTCTTTGAGGTCCCTGTATGCTACCTCTGACTTCTGTGGTCCCTCTG TGCTGCTCTCATCCATTCTTACTGGGGCCTGGGGCTTAGCCCCAA
WI-4767b	173 C A ---	---	TTTCCAGTCTGTTTTATCCTTTTCATTGTCAAAAAGATGCTCTTAGACTGAAATTCATAAAGAGTTCCCT CAGGTCTGGTAATCCTAGATCTTCCATATCCATTGAGTGTGAGTTGGAGAGGGTATGTTT CTTGCCCTTGAGAAATCCTAGAAAGCACAGGGATGACA[C/A]AAATCACTAAGGAATTCACCTAAGA CTCCTCTAACCCAGAGATTTTAACT
WI-4767	50 A G ---	---	TTTCCAGTCTGTTTTATCCTTTTCATTGTCAAAAAGATGCTCTTAGACTGA[C/A]GATTCATAAAGAGTT CCTCAGGTCTGGTAATCCTAGATCTTCCATATCCATTGAGTGTGAGTTGGAGAGGGGTATG TTTCTGCCCTTGAGAAATCCTAGAAAGCACAGGGATGACACAAATCACTAAGGAATTCACCTAAGAC TCCTCTAACCCAGAGATTTTAACT
WI-7718f	222 C T ---	---	ATTGCACTGAAGTTTTGAAATACCTTTGTAGTTACTCAAGCAGTTACTCCCTACACTGATGCAAGGA TTACAGAACTGATGCCAAGGGCTGAGTGAGTTCAACTACATGTTCTGGGGCCCGGAGATAGATG ACTTTGCAGATGGAAAGAGGTGAAAATGAAGAAGGAAGCTGTGTTGAAACAGAAAAATAAGTCAAA AGGAACAAAAATTACAAAGAA[C/T]TCATGCAGGAAGGAAAACTATGTATTAAAT
WI-7718e	60 T C ---	---	ATTGCACTGAAGTTTTGAAATACCTTTGTAGTTACTCAAGCAGTTACTCCCTACACTGA[C/G]CAAA GGATTACAGAACTGATGCCAAGGGCTGAGTGAGTTCAACTACATGTTCTGGGGCCCGGAGATAG ATGACTTTGCAGATGGAAAGAGGTGAAAATGAAGAAGGAAGCTGTGTTGAAACAGAAAAATAAGTC AAAAGGAACAAAAATTACAAAGAACCATGCAGGAAGGAAAACTATGTATTAAAT
WI-7718d	31 G A ---	---	ATTGCACTGAAGTTTTGAAATACCTTTGTAGTTACTCAAGCAGTTACTCCCTACACTGATGCAAA GGATTACAGAACTGATGCCAAGGGCTGAGTGAGTTCAACTACATGTTCTGGGGCCCGGAGATAG ATGACTTTGCAGATGGAAAGAGGTGAAAATGAAGAAGGAAGCTGTGTTGAAACAGAAAAATAAGTC AAAAGGAACAAAAATTACAAAGAACCATGCAGGAAGGAAAACTATGTATTAAAT

WI-7718c	91 C G ---	---	ATTGCACTGAAGTTTTGAAATACCTTTGTAGTTACTCAAGCAGTTACTCCCTACACTGATGCAAGGA TTACAGAACTGATGCAAGGG[C/G]TGAGTGAGTTCAACTACATGTTCTGGGGCCCGGAGATAG ATGACTTTGCAGATGGAAGAGGTGAAATGAAGAAGGAGCTGTGTTGAAACAGAAAAATAAGTC AAAAGGAACAAAAATTACAAAGAACCATGCAGGAAGGAAAACTATGTATTAAAT
WI-7718b	248 A G ---	---	ATTGCACTGAAGTTTTGAAATACCTTTGTAGTTACTCAAGCAGTTACTCCCTACACTGATGCAAGGA TTACAGAACTGATGCCAAGGGCTGAGTGAGTTCAACTACATGTTCTGGGGCCCGGAGATAGTG ACTTTGCAGATGGAAGAGGTGAAATGAAGAAGGAGCTGTGTTGAAACAGAAAAATAAGTCAAA AGGAACAAAAATTACAAAGAACCATGCAGGAAGGAAAACTATGTATTJA/GJAT
WI-7718a	42 A T ---	---	ATTGCACTGAAGTTTTGAAATACCTTTGTAGTTACTCAAGCAGTTACTCCCTACACTGATGC AAGGATTACAGAACTGATGCCAAGGGCTGAGTGAGTTCAACTACATGTTCTGGGGCCCGGAGAT AGATGACTTTGCAGATGGAAGAGGTGAAATGAAGAAGGAGCTGTGTTGAAACAGAAAAATAAG TCAAAAGGAACAAAAATTACAAAGAACCATGCAGGAAGGAAAACTATGTATTA
WI-7227d	99 G C ---	---	AGGGAATTGTTGCTCCTGGAGGAAGCCCGAGGCATCATTAACAAGCCAGTAGGTCACTGGCTTC CGTGGACCAATTTCATCTTTCAGACAAGCTTTA[G/C]AGAAATGGACTCAGGGAAGAGACTCACATGC TTTGGTTAGTATCTGTGTTCCGGTGGGTGTAATAGGGGATTAGCCCCAGAAAGGACTGAGCTAAACA GTGTTATTATGGGAAAGGAAATGGCATTGCTGCTTTCAACCAGCGACTAATG
WI-7227c	291 G A ---	---	AGGGAATTGTTGCTCCTGGAGGAAGCCCGAGGCATCATTAACAAGCCAGTAGGTCACTGGCTTC CGTGGACCAATTTCATCTTTCAGACAAGCTTTAGAGAAATGGACTCAGGGAAGAGACTCACATGCTTT GGTTAGTATCTGTGTTCCGGTGGGTGTAATAGGGGATTAGCCCCAGAAAGGACTGAGCTAAACAGTG TTATTATGGGAAAGGAAATGGCATTGCTGCTTTCAACCAGCGACTAATGCAAT
WI-7227b	93 G T ---	---	AGGGAATTGTTGCTCCTGGAGGAAGCCCGAGGCATCATTAACAAGCCAGTAGGTCACTGGCTTC CGTGGACCAATTTCATCTTTCAGACAAGCTTTAGAGAAATGGACTCAGGGAAGAGACTCACATGC TTTGGTTAGTATCTGTGTTCCGGTGGGTGTAATAGGGGATTAGCCCCAGAAAGGACTGAGCTAAACA GTGTTATTATGGGAAAGGAAATGGCATTGCTGCTTTCAACCAGCGACTAATG
WI-7227a	24 A G ---	---	AGGGAATTGTTGCTCCTGGAGGAAGCCCGAGGCATCATTAACAAGCCAGTAGGTCACTGGCTTC TTCCGTGGACCAATTTCATCTTTCAGACAAGCTTTAGAGAAATGGACTCAGGGAAGAGACTCACATGC TTTGGTTAGTATCTGTGTTCCGGTGGGTGTAATAGGGGATTAGCCCCAGAAAGGACTGAGCTAAACA GTGTTATTATGGGAAAGGAAATGGCATTGCTGCTTTCAACCAGCGACTAATG
WI-7310b	234 A C ---	---	CCACAATGCCTCTCCACGATGTCAAGGACTCCTGCTGCTGAGGTGGGAGACAAGGAACCTCCG AAGAGGAAGCAAGAAAGCCGTACTGTCTATGTTGTATCCTTCATCGAACAACACTGATCGGAAACT TGAATCTGTTACTGAAATGAGGAGAGAAGGACATGTGCTATTGAACTGAGCCAAACACACTGTAAAT ATCCACAGACTCCCTCCCTGCCCCCATCCCA[A/C]ATGATCTTGAGATTTC

WI-7310a	64 T A ---	---	CCACAAATGCCTCTCCACGATGTCAAGGACTCCTGTCTGTCTCTGGAGGTGGGAGACAAAGAACCTT/A JCGAAGAGGAAAGCAAGAACCCGTACTGTCTATGTGTGTATCTTATCGAACAACTGATGCGAA AACTTGAATCTGTTACTGAAATGAGGAGAGAAAGACATGTGCTATTGAACTGAGCCAAACACACTGT AAATATCCACAGACTCCCTCCCTGCCCTGCCCTATCCCAATGATCTTGAGATTTC
WI-7878b	162 A G ---	---	CCAGCAACACCTACACCTTGTACCTGCTGGGACTCCTATGATGGCCTG/C/GJTGTTGATAATAATCA GATATGCCCCAAGACGGGCTCCTGATAATCGTCTTGGGCATGATTGCAATGGAGGGCAATGCGTCC CTGAGGAGAAATCTGGAGGAGCTG/A/GJGTGTGATGAAGGTGTATGTGGGAGGGAGCACAGTGT CTGTGGGAGCCAGGAAGCTGCTACCCCAAGATTGTGGAGGAAAATA
WI-7878a	51 C G ---	---	CCAGCAACACCTACACCTTGTACCTGCTGGGACTCCTATGATGGCCTG/C/GJTGTTGATAATAA TCAGATCATGCCCAAGACGGGCTCCTGATAATCGTCTTGGGCATGATTGCAATGGAGGGCAATGC GTCCCTGAGGAGAAATCTGGAGGAGCTGAGTGTGATGAAGGTGTATGTGGAGGGAGCACAGTG TCTGTGGGAGCCAGGAAGCTGCTACCCCAAGATTGTGGAGGAAAATA
WI-7381c	213 C T ---	---	CTCCACATTCACACAGGCTTGAGCAGAAATTTCTGAGACTGAAGGGAATCCCCCTTTCTTTCTACC AGCCCTGCAAGTTTCTCATGGACGCTCGGAGGAGCAGGCTGCAGGTTTCTGCTATGGTGAGATC AGATGTGGCCAAAGGAAGAGCTCTGGTCCAGAGAAATTTGCACAAAGTTCCCTCTGTACAGAGACA AAACGGCTC/C/JTGGCTCTCAGAGCATAATCCTTGGCAGGGCTCAGCAGG
WI-7381b	54 C G ---	---	CTCCACATTCACACAGGCTTGAGCAGAAATTTCTGAGACTGAAGGGAATCCCTG/C/GJCTTTCTTTCT ACCAGCCCTGCAAGTTTCTCATGGACGCTCGGAGGAGCAGGCTGCAGGTTTCTGCTATGGTGAG ATCAGATGTGCCAAGGAAGAGCTCTGGTCCAGAGAAATTTGCACAAAGTTCCCTCTGTACAGAG ACAAAAGGCTCCGGCTCTCAGAGCATAATCCTTGGCAGGGCTCAGCAGG
WI-7381a	53 C G ---	---	CTCCACATTCACACAGGCTTGAGCAGAAATTTCTGAGACTGAAGGGAATCCCTG/C/GJCTTTCTTTCT ACCAGCCCTGCAAGTTTCTCATGGACGCTCGGAGGAGCAGGCTGCAGGTTTCTGCTATGGTGAG ATCAGATGTGCCAAGGAAGAGCTCTGGTCCAGAGAAATTTGCACAAAGTTCCCTCTGTACAGAG ACAAAAGGCTCCGGCTCTCAGAGCATAATCCTTGGCAGGGCTCAGCAGG
WI-1017b	93 G A ---	---	AAATTGCTCTATTCGGACCTCATATTAATAAGAGCAATGAGAGGGAATTTGAACCTCTCTC AGGTACTGACTGTGGGACCAGACAAAG/G/A/GATGTAGATTGCACATTCAATCCTGAACAAACCTG CCAGGCAAGTCTTCTCCCATTTACAAATAAGGAGACAAAAATAGGAGATTAAATAACTCATCAC TGTTTCAAAATAAGGAGTGTGAGGTTTGTCCC
WI-1017a	92 G A ---	---	AAATTGCTCTATTCGGACCTCATATTAATAAGAGCAATGAGAGGGAATTTGAACCTCTCTC AGGTACTGACTGTGGGACCAGACAAAG/G/A/GGATGTAGATTGCACATTCAATCCTGAACAAACCTG CCAGGCAAGTCTTCTCCCATTTACAAATAAGGAGACAAAAATAGGAGATTAAATAACTCATCAC TGTTTCAAAATAAGGAGTGTGAGGTTTGTCCC

WI-1795b	130 T C ---	---	GAAGCAACCAGAAAAGTATCTTTATCCCATCTAGATTATGTCTGGGTTCTCCAGACTCCTACGATTA AATTGTATGCATGTGAACAACCTGATGAGGTACTTAGATCTCAGTGCCTTTCAGAAAAGAAAAGT[C]C GTCTACCATTTTCACCAAATTCGTAGTACAATTTAAGTATCTCTGTTATCTCCCTAGGAGTCTAA AGTGAGCTGGGGAAGGCAGGATTT
WI-1795a	47 T C ---	---	GAAGCAACCAGAAAAGTATCTTTATCCCATCTAGATTATGTCTGGGTT[C]CTCCAGACTCCTACGA TTAAATTGTATGCATGTGAACAACCTGATGAGGTACTTAGATCTCAGTGCCTTTCAGAAAAGAAAAGTC GTCTACCATTTTCACCAAATTCGTAGTACAATTTAAGTATCTCTGTTATCTCCCTAGGAGTCTAA AGTGAGCTGGGGAAGGCAGGATTT
WI-10616d	136 G A ---	---	CACACAAATTTGCAAAACACTTCAAAGTGAACGCCCGACATCATCAGCCCGTTAACGTCCAGGCCATGT CCCACATAGAGAACGCTTTACTTCCACGTCTCTCCATACGTAGGTCTGGTCTCCTATCACAATTGCCA C[G/A]TAGCCCTCCCTTCCCTTCCCTACAGGCCCTCTTCAGGGCCCCAGTCCCCCTCTGAGACTCCC ATGGATCATCTCCTGTTTCTGTATCAGGCAGTGATTTAACTCCTTTTTTGT
WI-10616c	136 G A ---	---	CACACAAATTTGCAAAACACTTCAAAGTGAACGCCCGACATCATCAGCCCGTTAACGTCCAGGCCATGT CCCACATAGAGAACGCTTTACTTCCACGTCTCTCCATACGTAGGTCTGGTCTCCTATCACAATTGCCA C[G/A]TAGCCCTCCCTTCCCTTCCCTACAGGCCCTCTTCAGGGCCCCAGTCCCCCTCTGAGACTCCC ATGGATCATCTCCTGTTTCTGTATCAGGCAGTGATTTAACTCCTTTTTTGT
WI-10616b	141 C T ---	---	CACACAAATTTGCAAAACACTTCAAAGTGAACGCCCGACATCATCAGCCCGTTAACGTCCAGGCCATGT CCCACATAGAGAACGCTTTACTTCCACGTCTCTCCATACGTAGGTCTGGTCTCCTATCACAATTGCCA CGTAGC[C/Π]CTCCCTTCCCTTCCCTACAGGCCCTCTTCAGGGCCCCAGTCCCCCTCTGAGACTCCC ATGGATCATCTCCTGTTTCTGTATCAGGCAGTGATTTAACTCCTTTTTTGT
WI-10616a	116 G C ---	---	CACACAAATTTGCAAAACACTTCAAAGTGAACGCCCGACATCATCAGCCCGTTAACGTCCAGGCCATGT CCCACATAGAGAACGCTTTACTTCCACGTCTCTCCATACGTAGGTCTGGTCTCCTATCACAATTG CCACGTAGCCCTCCCTTCCCTTCCCTACAGGCCCTCTTCAGGGCCCCAGTCCCCCTCTGAGACTCCC ATGGATCATCTCCTGTTTCTGTATCAGGCAGTGATTTAACTCCTTTTTTGT
WI-1126c	52 G A ---	---	CTCTTAATTTCTCTGGGCACCTGCTTTCTTTGGGGGCAAACTCCAGTATCACT[G/A]TACTAATAATA AAACCCTGTAAGTCTGCTTGCAATTTTCAAGATTCAATATATATCCAGATTGTTTCCCAGGAAAAGAA AATTTTATTTCTCAAGATATAAAAAATAAATAATTTAATTTCAAGTTTCTCCTCAAAAGGAATATGAAATT TGTTAAATGCAAAATCCAGCTGTAACTTTTTTGGACTTGCTTTTATTCTT
WI-1126b	230 T C ---	---	CTCTTAATTTCTCTGGGCACCTGCTTTCTTTGGGGGCAAACTCCAGTATCACTGATACTAATAAAAA CCCTGTAAGTCTGCTTGCAATTTTCAAGATTCAATATATATCCAGATTGTTTCCCAGCAAAAGAAAATT TTATTTCTCAAGATATAAAAAATAAATAATTTAATTTCAAGTTTCTCCTCAAAAGGAATATGAAATTGTT AAAATGCAAAATCCAGCTGTAACTTTTTTTTCIGGACTTGCTTTTATTCTT

WI-1126a	97 T C ---	---	CTCTATTCTCTGGGCACTGCTTTCTTTGGGGGCAAACTCCAGTATCACTGATACATAATAAAAA CCCTGTAAAGTCTGCTTGCATTTTCAAGATTT/CJCAATATATATCCAGATTGTTTTCCAGCAAGAAAA ATTTTATTTCTCAAGATATAAAAAATAAATAATTAATTTCACTTCCCTCAAAAGGAATATGAAATTT GTTAAATGCAATCCAGCTGTAACITTTTGGACTTGCTTTTATTTCTT
WI-11183c	124 C T ---	---	TAGTGCTAAATTTTGGAAAAGTTTGCTGATTTTAAAAATCTTTTAAAACTTGAAAAATTTAGAGTAC ATATAAATAAAATAAGACCAGATAGGTATTAATTCAGATGATTTTTGCCCCTTGTCACATAACATTT TTTATGACATACAAATGACCAAAATGATGTTTTATGAAGTGTAGGATAGAGTTTTTAAATTTAAATATTGGT ATGTGGTGTAGAGTTAGTAATGGAA
WI-11183b	192 T C ---	---	TAGTGCTAAATTTTGGAAAAGTTTGCTGATTTTAAAAATCTTTTAAAACTTGAAAAATTTAGAGTAC ATATAAATAAAATAAGACCAGATAGGTATTAATTCAGATGATTTTTGCCCCTTGTCACATAACATTT ATGACATACAAATGACCAAAATGATGTTTTATGAAGTGTAGGATAGAGTTTTTAAATTTAAATATTGGT ATGTGGTGTAGAGTTAGTAATGGAA
WI-11183a	118 C T ---	---	TAGTGCTAAATTTTGGAAAAGTTTGCTGATTTTAAAAATCTTTTAAAACTTGAAAAATTTAGAGTAC ATATAAATAAAATAAGACCAGATAGGTATTAATTCAGATGATTTTTGCCCCTTGTCACATAACATTT TTTATGACATACAAATGACCAAAATGATGTTTTATGAAGTGTAGGATAGAGTTTTTAAATATTGGT ATGTGGTGTAGAGTTAGTAATGGAA
WI-10770b	174 G A ---	---	GCTTGGTTGCTTTAGTCTTATTGTCTCAGTCTTGAGTTCTCCCTTTCTGCGTGGCCCTTTTGTATTCA CCCATACCTCTATGCCCTCGTCTCAGACCAATTCCTCTATCTGGAGCGCTCTCCCTGTACTTTCTCCTG TTACCAACCTTCTTTTATTCTTCAGGACACTCA[G/A]TTCACATGCCACTCTCGTGACACTGTCTCT TTCACATCTTTCTGTGTCCTTCCCTTTCC
WI-10770a	49 G T ---	---	GCTTGGTTGCTTTAGTCTTATTGTCTCAGTCTTGAGTTCTCCCTTTCT[G/J]CCTGGCCCTTTTGTATT TCACCATACCTCTATGCCCTCGTCTCAGACCAATTCCTCTATCTGGAGCGCTCTTCCCTGTACTTTCTC CTGTTACCAACCTTCTTTTATTCTTCAGGACACTCAGTTTCACATGCCACTCTCGTGACACTGTCTCT TTCACATCTTTCTGTGTCCTTCCCTTTCC
WI-9667b	82 C T ---	---	GATGACAACTTCTGCTGTGACCCCTTAGTCTTGGTCTCATGACACTTTTCAATCTCTGCCCTTGTATCATGG TTATCACTGGACA[C/T]AGCCACCTCCCAGCAGGCTTAGAACTCCATGAGTAAGGGACCCCTGTCTA ATGTGCCGTTTCTCCTTATGGTATTACACACAGTCATAGGCATGGTAGTCAACTAATGGATCTTGGCT GTTTAAACCTTTTCTCTGTACCCAGTACCTAAGTCCAAACTTGCATTCT
WI-9667a	68 G C ---	---	GATGACAACTTCTGCTGTGACCCCTTAGTCTTGGTCTCATGACACTTTTCAATCTCTGCCCTTGTATCATG G/C]TTATCACTGGACACAGCCACCTCCCAGCAGGCTTAGAACTCCATGAGTAAGGGACCCCTGTCTA ATGTGCCGTTTCTCCTTATGGTATTACACACAGTCATAGGCATGGTAGTCAACTAATGGATCTTGGCT GTTTAAACCTTTTCTCTGTACCCAGTACCTAAGTCCAAACTTGCATTCT

WI-10400d	189 A G ---	---	ACATTTTATTAGCAAAACAATCAGCAAAATAATAATAGAAAGTAATTGCAATTCAGACATCTGCTG GTTAACTGTTATAAGATGGTTTAGCACACATGTAGCACATTTACTAACACAATATTTTATTCTAAATTT TCCTTCCCTTACCTTTACTCTCCCAACCAAAATAACGTAAGTACCTATGTC[G]AGJGGCCATGTAG TTTTTGGTTCATTTACTTGCAAATATTCAAAGGCGTTAATGCATTATG
WI-10400c	166 A C ---	---	ACATTTTATTAGCAAAACAATCAGCAAAATAATAATAGAAAGTAATTGCAATTCAGACATCTGCTG GTTAACTGTTATAAGATGGTTTAGCACACATGTAGCACATTTACTAACACAATATTTTATTCTAAATTT TCCTTCCCTTACCTTTACTCTCCCAACCA[A/C]AAATAACGTAAGTACCTATGTCATGCCATGTAG TTTTTGGTTCATTTACTTGCAAATATTCAAAGGCGTTAATGCATTATG
WI-10400b	165 A G ---	---	ACATTTTATTAGCAAAACAATCAGCAAAATAATAATAGAAAGTAATTGCAATTCAGACATCTGCTG GTTAACTGTTATAAGATGGTTTAGCACACATGTAGCACATTTACTAACACAATATTTTATTCTAAATTT TCCTTCCCTTACCTTTACTCTCCCAACCA[G]AAATAACGTAAGTACCTATGTCATGCCATGTAG TTTTTGGTTCATTTACTTGCAAATATTCAAAGGCGTTAATGCATTATG
WI-10400a	46 T C ---	---	ACATTTTATTAGCAAAACAATCAGCAAAATAATAATAGAAAGTAATTGCAATTCAGACATCT GCTGGTTAACTGTTATAAGATGGTTTAGCACACATGTAGCACATTTACTAACACAATATTTTATTCTA ATTTTCTTTCCCTTACCTTTACTCTCCCAACCAAAATAACGTAAGTACCTATGTCATGCCATGT AGTTTTTGGTTCATTTACTTGCAAATATTCAAAGGCGTTAATGCATTATG
WI-10809b	78 C T ---	---	AAAGGGCTACAAACTAAGGCGCAAAACCATGAACGGTATAAGGAGGGTAAATGCAAGGGGAGACCC CACCTCTCACC[A/C]TTAGAAAAGGGCATTTCAGACACATTTCAATGAGGCTTCATATACTGTTAG CAACAAATGGAATGATTAGCCCAAGGCGGGTATGGACCAAAAGTGCCCAAGTATGAGGCCACA GTGAATATCCACCTAACGACCTTCTTGGATGATGTACACATGACATAGGCTTAA
WI-10809a	33 C T ---	---	AAAGGGCTACAAACTAAGGCGCAAAACCATGA[A/C]TGGTATAAGGAGGGTAAATGCAAGGGGAGA CCCCACCTCTCACCCTTAGAAAAGGGCATTTCAGACACATTTCAATGAGGCTTCATATACTGTTAGC AAACAAATGGAATGATTAGCCCAAGGCGGGTATGGACCAAAAGTGCCCAAGTATGAGGCCACAG TGAATATCCACCTAACGACCTTCTTGGATGATGTACACATGACATAGGCTTAA
WI-7038c	266 T C ---	---	CGAGCTTGGGATAAAGCAAGGGGACCTTGGCGCTCTCAGCTTCCCTGCCACATCCAGCTTGTGTCC CAATGAAATACTGAGATGCTGGGCTGTCTCTCCCTCCAGGAATGCTGGGCCCCCAGCTGGCCAGAC AAGAAGACTGTCAGGAAGGTCGGAGTCTGTAAACCAGCATACAGTTTGGCTTTTTCACATTGAT CATTTTATATGAAATAAAAGATCCTGCAATTTATGGTGTAGTCTGAGTCC
WI-7038b	140 A C ---	---	CGAGCTTGGGATAAAGCAAGGGGACCTTGGCGCTCTCAGCTTCCCTGCCACATCCAGCTTGTGTCC CAATGAAATACTGAGATGCTGGGCTGTCTCTCCCTCCAGGAATGCTGGGCCCCCAGCTGGCCAGAC AAGA/CJGACTGTCAGGAAGGTCGGAGTCTGTAAACCAGCATACAGTTTGGCTTTTTCACATT GATCATTTTATATGAAATAAAAGATCCTGCAATTTATGGTGTAGTCTGTA



WI-7038a	31 G A ---	---	---	CGAGCTTGGGATAAAGCAAGGGGACCTTGGCG[A]CTCTCAGCTTCCCTGCCACATCCAGCTTGTTG TCCCAATGAAATACTGAGATGCTGGGTGCTCTCCCTCCAGGAATGCTGGCCCCCAGCCTGGCCA GACAAGAAGACTGTGAGGAGCGGAGTCTGTAAACACGACATACAGTTGGCTTTTTCACATT GATCATTTTATATGAAATAAAAAGATCCTGCAATTTATGGTGTAGTTCTGA
WI-3429b	64 G T ---	---	---	ATACGCTTCTGTCTGCCACAGTGGAAACAGCACCCAGGTGCCAGGGTCGGGCTCCACACA[G/T] CCCTCAGCCCCCTTCAGCTTTCATGTGCCATCGGTGACTCAGCACAGAGTTTCCAACCTCATGTGA CAAAAATACAGATCCCAGTCTCCTCTCCTGGATTGGATCTAGCAAGACCAGAGACGGTCCCTAGAA TCCTGACTGTTAACAAGCACTCCAGGCAATTCCTAAGACCAAGCACGGAGC
WI-3429a	62 C T ---	---	---	ATACGCTTCTGTCTGCCACAGTGGAAACAGCACCCAGGTGCCAGGGTCGGGCTCCACAC[A/C]TAG CCCTCAGCCCCCTTCAGCTTTCATGTGCCATCGGTGACTCAGCACAGAGTTTCCAACCTCATGTGA CAAAAATACAGATCCCAGTCTCCTCTCCTGGATTGGATCTAGCAAGACCAGAGACGGTCCCTAGAA TCCTGACTGTTAACAAGCACTCCAGGCAATTCCTAAGACCAAGCACGGAGC
WI-6786c	151 G A ---	---	---	ATTTAGGACAGTGA AAAAAGGGATTATAAATAAATCTATGCCATCCAGGAGGTATGTGCAGT GTCCAGAACATCCTAGATGAAGTGGCTTCCTTTGGCGAAAGGATAAAGAGTGAGTGACGGTGACCT GTGAGCCCCATTCTT[G/A]TGGGATAAGGTGTCATTGTTTCTGGAGGGTGAATGCCACATTCT TTTTGGCAGGGGACACTCCTCTGGGTGCTCTATGCTCAGTTTCATCAT
WI-6786b	111 A T ---	---	---	ATTTAGGACAGTGA AAAAAGGGATTATAAATAAATCTATGCCATCCAGGAGGTATGTGCAGT GTCCAGAACATCCTAGATGAAGTGGCTTCCTTTGGCGAAAGGAT[A/T]AAGAAAGTGAGTGACGGTGA CCTGTAGCCCCATTCTCTGTGGGATAAGGTGTCATTGTTTCTGGAGGGTGAATGCCACATTCT TTTTGGCAGGGGACACTCCTCTGGGTGCTCTATGCTCAGTTTCATCAT
WI-6786a	106 A T ---	---	---	ATTTAGGACAGTGA AAAAAGGGATTATAAATAAATCTATGCCATCCAGGAGGTATGTGCAGT GTCCAGAACATCCTAGATGAAGTGGCTTCCTTTGGCGAA[A/T]GGATAAAGAAAGTGAGTGACGGTGA CCTGTAGCCCCATTCTCTGTGGGATAAGGTGTCATTGTTTCTGGAGGGTGAATGCCACATTCT TTTTGGCAGGGGACACTCCTCTGGGTGCTCTATGCTCAGTTTCATCAT
WI-6711b	226 G T ---	---	---	GGCTATTTGTAATGCTTGGTTATTTGACTCCAAAATGAATAAGTATGGGGAAGAATCCCTCACCT ACTTCCAAATCCCTTACATATCAATTTACACAAAGCCCCCTAAACCTCAGTTCCAATCAGTCTGAAT TTCATATACCTCCATTATTAATTTCAATACATCATTCAGAGAGAAAAGACACGGTGCCAACTGGGTT TGGTTGGTGCCTGCACACCCACA[G/T]TGGCAACTAAGTGTAACTCTCTAAA
WI-6711a	36 T C ---	---	---	GGCTATTTGTAATGCTTGGTTATTTGACTCCAAAATGAATAAGTATGGGGAAGAATCCCTC ACCTACTTCCAAATCCCTTACATATCAATTTACACAAAGCCCCCTAAACCTCAGTTCCAATCAGTCT GAATTTATATACCTCCATTATTAATTTCAATACATCATTCAGAGAGAAAAGACACGGTGCCAACTG GGTTTGGTTGGTGCCTGCACACCCACAGTGGCAACTAAGTGTAACTCTCTAAA

WI-10613b	172 A C ---	---	ATTGTATGCCAAATCATAATACCCCTGCAATCTCTAGAAACATACAGTGTAAATAGAAATTTTGAGCCATA TGGTGAAAAATTTAGAAATATTATCTCTATATGTATATCTACGTAAACATCAATGAATGTGATTT TTTGTCAACTTTTGACAAGGCCAGGCAATTTTATTTG[A/C]GCCCTAGGAGGTTACTATAATTTAGA AAGGCTCTTACCTTCCACTCTATAATTTAAGTCTCGGACTTAGGATGTAG
WI-10613a	44 G A ---	---	ATTGTATGCCAAATCATAATACCCCTGCATTCTAGAAACATACA[G/A]TGTAATAGAAATTTTGAGCC ATATGGTGAAAAATTTAGAAATATTATCTCTATATGTATATCTACGTAAACATCAATGAATGTG ATTTTGTCAACTTTTGACAAGGCCAGGCAATTTTATTTGAGCCCTAGGAGGTTACTATAATTTAG AAAGGCTCTTACCTTCCACTCTATAATTTAAGTCTCGGACTTAGGATGTAG
WI-7587c	133 A T ---	---	GCTCTAGTGGGAAACCTCAGGTAGCTCCGGAAGATCTGTGCTTTCCAACAAGTGACTACCCCTTGAAGC ACATCCCTTCTGGATCTGAAAAGAGCCCTTGGCTCAGGGCGTCTTTTCCAGCCCTGAGGAA[A/ T]GGAATGAACCACTCCCTGCCATTCCCTATAAGAATATCCCAAGACCAGGCAATTTTGCCCTCT TTCCACATGCCCCCATATGCTGAGCCAAACTGCACTGGGGGCTGCCCTC
WI-7587b	81 G A ---	---	GCTCTAGTGGGAAACCTCAGGTAGCTCCGGAAGATCTGTGCTTTCCAACAAGTGACTACCCCTTGAAGC ACATCCCTTCTG[A/T]ATCTGAAAAGAGCCCTTGGCTCAGGGCGTCTTTTCCAGCCCTGAGGAAA AGGAATGAACCACTCCCTGCCATTCCCTATAAGAATATCCCAAGACCAGGCAATTTTGCCCTCTT TCCACATGCCCCCATATGCTGAGCCAAACTGCACTGGGGGCTGCCCTC
WI-7587a	28 C T ---	---	GCTCTAGTGGGAAACCTCAGGTAGCTCC[G/T]GAAGATCTGTGCTTTCCAACAAGTGACTACCCCTTGA AGCACATCCCTTCTGGATCTGAAAAGAGCCCTTGGCTCAGGGCGTCTTTTCCAGCCCTGAGGAAA AGGAATGAACCACTCCCTGCCATTCCCTATAAGAATATCCCAAGACCAGGCAATTTTGCCCTCTT TCCACATGCCCCCATATGCTGAGCCAAACTGCACTGGGGGCTGCCCTC
WI-10681b	103 T A ---	---	ATGACTCAGGTGACAAAAGAGCATGTCTCTAGACCCCATTTGACTTACGCCAAACTCAATCAGCCAACC ACAGAAAAGCTAAAGACATCCTTTTTTAAAAAGCC[T/A]AAGACAGCCATTTTAAATCCTAATTGG TAGTTTATGATTTTCTCAAAATTTCCCAACACACAGAAAAGAACTTCAAGGTTAGGTTCTAATGTTA CCATTGCTAACACTATTGCTTTGGAGAGGAGGAGTGACGCTCTGTTAAAAG
WI-10681a	41 A T ---	---	ATGACTCAGGTGACAAAAGAGCATGTCTCTAGACCCCATTTG[A/T]CTTACGCCAAACTCAATCAGCCA ACCACAGAAAAGCTAAAGACATCCTTTTTTAAAAAGCCCTAAAGACAGCCATTTTAAATCCTAATTGG TAGTTTATGATTTTCTCAAAATTTCCCAACACACAGAAAAGAACTTCAAGGTTAGGTTCTAATGTTA CCATTGCTAACACTATTGCTTTGGAGAGGAGGAGTGACGCTCTGTTAAAAG
WI-7222c	126 G T ---	---	GCCTCTCCTCAACTGTCTGGACCCCAAGGCTAGGAAAGGGGCTGCTTGAGATGACTGTGTTCCCTCTT AGACTCCCTAAGCCCGAGTGAGCTCAGGTGTCACCTGTTCTCAAGTTGGGGATGGG[G/T]AATAA AGGAGGGGAATTCCTTGAACAAGAAGAACTGGGGATAGTTATATTTCCACCTGCCCTTGAAGCTT TAAGACAGTGATTTTGTGTAAGGTTGTATTTCAAAGACTCGAATTCATTTT

WI-7222b	255 G A ---				GCCTCTCTCAACTGTCTGGACCCCAAGGCTAGGAAAGGGCTGCTTGAGATGACTGTGGTCCCCCTT AGACTCCCTAAGCCCGAGTGAGCTCAGGTGCACCTGTTCTCAAGTTGGGGATGGGAATAAAGG AGGGGAATTCCCTTGAACAAGAAGAACTGGGGATAGTTATATTTCCACCTGCCCTTGAAGCTTTAA GACAGTGATTTTGTGTAAGGTGTATTTCAAGACTCGAATTCATTTCTCA
WI-7222a	126 G T ---				GCCTCTCTCAACTGTCTGGACCCCAAGGCTAGGAAAGGGCTGCTTGAGATGACTGTGGTCCCCCTT AGACTCCCTAAGCCCGAGTGAGCTCAGGTGTCAACCTGTTCTCAAGTTGGGGATGGG[G/T]AATAA AGAGGGGAATTCCCTTGAACAAGAAGAACTGGGGATAGTTATATTTCCACCTGCCCTTGAAGCTT TAAGACAGTGATTTTGTGTAAGGTGTATTTCAAGACTCGAATTCATTTT
WI-8054d	41 C A ---				AAAGATGACACTTAGAACTGGATCAGTTGGCCCTTCTCTT[C/A]TTATCTCTCCAGTTCAAAATG CTTGCACTCTTTAATAGCCAGCATCTCTTAGATCTGCAGTTGGCTCAACGCACTCAAGCCTTAGCA CAATCTCTTTGTAGTTTAGCCCTTTTCCGGAAATCGGCTTAGTTTGGCCACCATAGCCACTCTGCT TCCTGTATACGCGCTTCCCTGGCGTACAGAGATCCTTGGCCCTT
WI-8054c	237 G T ---				AAAGATGACACTTAGAACTGGATCAGTTGGCCCTTCTCTTCTTATCTCTCCAGTTCAAAATGCTT GCATCTTTAATAGCCAGCATCTCTTAGATCTGCAGTTGGCTCAACGCACTCAAGCCTTAGCACAA TCTCTTTGTAGTTTAGCCCTTTTCCGGAAATCGGCTTAGTTTGGCCACCATAGCCACTCTGCTTCC TGTATACGCGCTTCCCTGGCGTACAGA[G/T]AATCCTTGGCCCTT
WI-8054b	148 T C ---				AAAGATGACACTTAGAACTGGATCAGTTGGCCCTTCTCTTCTTATCTCTCCAGTTCAAAATGCTT GCATCTTTAATAGCCAGCATCTCTTAGATCTGCAGTTGGCTCAACGCACTCAAGCCTTAG[C/G]A CAATCTCTTTGTAGTTTAGCCCTTTTCCGGAAATCGGCTTAGTTTGGCCACCATAGCCACTCTGCT TCCTGTATACGCGCTTCCCTGGCGTACAGAGATCCTTGGCCCTT
WI-8054a	131 C G ---				AAAGATGACACTTAGAACTGGATCAGTTGGCCCTTCTCTTCTTATCTCTCCAGTTCAAAATGCTT GCATCTTTAATAGCCAGCATCTCTTAGATCTGCAGTTGGCTCAACGCACTCAAGCCTTAG[C/G]A CAATCTCTTTGTAGTTTAGCCCTTTTCCGGAAATCGGCTTAGTTTGGCCACCATAGCCACTCTGCT TCCTGTATACGCGCTTCCCTGGCGTACAGAGATCCTTGGCCCTT
WI-10854b	152 G T ---				TTCCACAAAAACTTCCCTGGCCGGGTGACTAAGATGAGAAAGTGGGAGAACTGGATAGTTTAATAA ATGTTTATATTTTACTTTAAAGCGAAGTTGAAACACGAGACGATAGTTAACGCTGGTAAGTTTAT ACGGTGTGCGAGGCAACA[G/T]GGAGAGGTACGGGAATAGTTCTACTTCTGTTTTTATTCTTG TTTTAGACACAGGGTCTGCTGTGTG
WI-10854a	102 C T ---				TTCCACAAAAACTTCCCTGGCCGGGTGACTAAGATGAGAAAGTGGGAGAACTGGATAGTTTAATAA ATGTTTATATTTTACTTTAAAGCGAAGTTGAAACA[C/T]GAAGACGATAGTTAACGCTGGTAAGTT TATACGGTGTGCGAGGCAACAGGGAGAGGTACGGGAATAGTTCTACTTCTGTTTTTATTCTTG TTTTAGACACAGGGTCTGCTGTGTG

WI-9826b	127	G A ---	---	AAATTTATATGTGAAGGGTTAGCAAACTATGGCCACAGGCCCATCTAGCCATGCCATTTTGTG TGCCTGATGGCTGTTGGTGTTTGCACGCAGTTGAGCCATTGTGACAGAGGCTGTTAT[G/A]GCCTT CAAAGCCAAAAAATAATTTACTCTCTGGCCTTGACGGGAAAGTTTGCTGATTCTAGATAATTTAAAG GGCAGAGAAGATCAGAAGTGTGAA
WI-9826	125	A T ---	---	AAATTTATATGTGAAGGGTTAGCAAACTATGGCCACAGGCCCATCTAGCCATGCCATTTTGTG TGCCTGATGGCTGTTGGTGTTTGCACGCAGTTGAGCCATTGTGACAGAGGCTGTTAT[G/A]GCCTT AAAGCCAAAAAATAATTTACTCTCTGGCCTTGACGGGAAAGTTTGCTGATTCTAGATAATTTAAAG GCAGAGAAGATCAGAAGTGTGAA
WI-15986	60	T G GTGGGTTTT	TGACATTATAT AAACGTAAAA GAAAATGT	CGGACACGTGTATATACAAATACAGATCGTATGGGTTTGTGTGGGTTTTTTTTT[G/G]TTAC ATTTCTTTTACGTTTATATAATGTCAGCATTTCAA
WI-8655	29	A G AG	AACTGCAAAAT AGGAAACCAG TCCC	TTCAAGTAACGTCAAATAGGAAACCCAGAG[G/G]GGAGGCCCCAGGTGGGACAAATCATGGCTACCCC TCCCCAACAGAACAGGGGGAGGAGTGGCCCTACACCCCTTAT
WI-8170b	259	G A ---	---	GCACCTCTCTCTGAGCAACAGGTACACTTTTTTCTCTAACATTGATCTATAACACACCAGAACCG TGTTTTAATAGCTGCTGATAAATGAACCTATTTTAAAGTACTCTACCAAGATGCTGTGGTAAGGTTAG CATTTGGTGGAGAGATTTACAAGGTTAAGATCATGTGCCATCAAAGTGCAATCCTATCAATCAGAA ATAAAGGTAAAGGGCCCTCAAATGAAATCTACGGAAAAACATAACAAGA
WI-8170a	204	T A ---	---	GCACCTCTCTCTGAGCAACAGGTACACTTTTTTCTCTAACATTGATCTATAACACACCAGAACCG TGTTTTAATAGCTGCTGATAAATGAACCTATTTTAAAGTACTCTACCAAGATGCTGTGGTAAGGTTAG CATTTGGTGGAGAGATTTACAAGGTTAAGATCATGTGCCATCAAAGTGCAATCCTATCAATCAGAA A/T/A/JAAAGGTAAAGGGCCCTCAAATGAAATCTACGGAAAAACATAACAAC
WI-8172	136	C G GACA	CCTTTATTAAA ATTGTTTCTT AAAGGTAC	CAGGATTCCTTAAGTCATCTCCAATACTCCAGGTACATGGTGAAGAGTCACCTGTTAAACACGAA ATCTAACCATTAACAAGCTTTTAAATCCTTCGGTAACCTCCCTTTTAAATGTTTCTTGACAT A/C/GIAGTACCCTTTACAGGTATTACATTTCTCTCACCCGTTTACA
WI-8183	56	G A TGC	TGAAATAAAA ACAAATTTCTGT CAACCTGC	AGCAGGGTTTGAATGTATCCCTTATTTACATGAAATAAAAACAATTTCTGTGC[G/A]GCAGGTT TGATTTCAACACAGTTGAATCTGTAAAAACCAAGCTGTTCTGATGCAGGACAAAATATCCACAAT ATTTAAACTGCAAGCACCATGC
WI-14149	83	C T ---	---	GCTTTATTGGGATTGCAAGGTTACAAGTTAAAGACAAAACCCAGCATGGGATTTTGCCTGAAAT ATTAGCGTTAAAGGAG[C/T]TGAGTTGAGTCAAAACACGGG
WI-8712	44	G A G	CACAGGGAAG AGGTAGTGGA ACCATCTC	TCAACAATGACACTGTGTAAACAGCACAGGGAAGAGGTAGTGGAG[G/A]GAGATGGTCAGGCTTCTCG TTCTTAACACAGAGAGCCCGACCAACCTAGAGCGCCTCACCTAGCCTCTTAAT

WI-8827	22 C T	TCCCTGGGAG ACTATGG	GCATTAGGAT TTTAGTGTTCAC	GGTGCCCTGGGAGACTATGG[C]/TJAGTGAACACTAAATCCTAATCGCCATGCATTGGAATTATT CCGACTATTACTTCTTTAGTTCCCTTCTTATCCACCCAGTCTTCT
WI-8833	51 A T	TCTCCATGCC ATTCTCTG	CCTCAGACATT ATAGGGGCA	CTCCGGCTCTTAAAGCTCTCTGTAGACTGTCTCTCCATGCCATTCTCTG/TJTGCCCTATAATGT GTGAGGGTATTACAATAGTCCCTATTCAAAGTCTTGTATCAAAAGGTGAGTATGT
WI-8377	63 A G	---	---	ATTTTATGCCATGTTGGTAAAGTTCAITTTTCTAGTACATGGGTAAACCCAGGCCCTTTCCCA/GJT TATATCCAGGTATGCTACAAGTTCTTTAACTCTTATCAGAAGTTATTATTACTGTTTCTTAGAGAG GCTACCAGGCTAAATTCACCTAGTTGGTTGTCTAATGTCCTCATTATTTATCCTGAAGCTCGTG
WI-8850	21 A G	GGGACTTAAC CTTTGGCT	CAAACAGCCA GGCAGG	GAGGGACTTAACCTTTGGCCT[A/G]CCTGCCTGGCTGTTTGGCTCTGGCTTGTGTTTTTGGTTCTT TCTCTTCTACTGGTCTTCTTCTTGTCTTTGGCAGCCACTATGCTGTGT
WI-8853	79 C T	CCGGGCATTG AGGATA	AGTCTTCTCTGA GCCITCCAT	ACTTTCTTGAGCTGAGCAACCTCATCTCTTTAGCTTCTGGTTGATAACGCTGTTAATCCCGGG CAITGAGGATA[C]/TJATGGAAGGCTCAGGAAGACTTCATTCTCAA
WI-8865b	52 A G	---	---	AGGTGACTGTGAATCACAGGCACAGACTGAGGAAGACAGTATGGTGAACA[A/G]JACAACATGCT TCGGACTTACCAAAGGGAGAGTCGAGCTTCCATATAA
WI-8865a	42 T C	CACAGACTGA GGAAGACAGT CA	GGTAAGTCCGA AGCATGTTG	AGGTGACTGTGAATCACAGGCACAGACTGAGGAAGACAGTCA[T/C]JGGTGAACAACAACATGCT TCGGACTTACCAAAGGGAGAGTCGAGCTTCCATATAA
WI-8895	32 A C	---	---	GTCCACAAACCTGGACACCAACCAAGAA[T/A/C]CTCCCGTCTTTGAAATTTCCATTAAAGAGCA CAATGGGGTAATTATACCAAGGATGCTCCAATCGCTCTTC
WI-8456	93 G C	---	---	CTTTTAAAGTCACAGTCAACTCGACTGTGGACTGATATATTGTGAATATAATAAACTCTTTCC AAGGCTCCCATGCTTGGATGTCACA[G/C]TTATGTCAAGTTAATAAACAATTTCTAAGTGTCACTC TCAACTTCTGTGTTATCTTGCCATGGTCCAGTAACAGTTACACGGCAGACCACAAGTTGTGTAGCAC TGGCATAGACGAGGGCTTCTCAAACCTCCCGTCTGGTCTCAGTCACCCAC
WI-8496b	157 A G	---	---	TTTCATCATCAAAAGTTTCTTTCCATAGAAGAAATGGTAA[T/G/A]TTGTATCAGTGCATATTTCTATGAAA ATTCTATCTCAAGTAAGTAACTAGCCTAGAAATCAGAGACAGCAGTATGTCAAGCTAGTATACAAGTCA AAGACACAATGCTGCCAATGCA[A/G]TTAGTATATAGAAATAATACGCAGCTGTTAGAAAAAGTCT GTGGCCAAGTGGGATAAAACAGTAGCAGTGCAC
WI-8496	41 G A	---	---	TTTCATCATCAAAAGTTTCTTTCCATAGAAGAAATGGTAA[T/G/A]TTGTATCAGTGCATATTTCTATGG AAAAATTCATATCTCAAGTAAGTAACTAGCCTAGAAATCAGAGACAGCAGTATGTCAAGCTAGTATACAAG GTCAAAGACACAATGCTGCCAATGCAATTAGTATATAGAAATAATACGCAGCTGTTAGAAAAAGTCT TGTGGCCAAGTGGGATAAAACAGTAGCAGTGCAC
WI-14153	28 A G	GTGAGGAAG GCCAGC	AACGGCAGGA GGGGA	CTGCAGGTCTATGTGAGGAAGGCCAG[C/A/G]TCCCTCTGCGGTTGTACCCACATCCACAGAGCA GCCCTAGTGCCAGGTGAGCCACTGCCACCCACGGCACACGGGAACAGGACCCATGCTGC

WI-12108	40 C T ATA	TGAAAAGGG TTAAACTCAA	TTGACCTGGTA TAATGAAAGT ATTTTC	TCATGTATTACTTTCTGAAAAGGGTTAAACTCAAATATC[CT]GAAATACTTTTCATTATACCAGGT CAAGAAAAATGCCACAGCCAGAAAAATTTATTTTAA
WI-5989	29 G A CACAGGCA	CCACAAAGGT CACAGGCA	GGGTATAACAG AACCGTATGTA CG	CAGGCAACGTCACAAAAGGTCACAGGCA[G/A]CGTACATACGGTTCTGTTATACCCCATATATTAC CCCTTCATGTCCTAAAGAAGACATTTTCTCTTAGAGATTTTCATTTTAGTGATCTTTAAAAAAAAT CTTGTTAACTTGCCTCCATCTTTTCTTGGTGAGGACACC
WI-12201	61 C T CCTGCATG	CCCACTGATCA CCTGCATG	CCGACCACATA CCTGGC	ATAGCTTTTAGCCTTTTCTCTGGAGTGTTTATGTCCCAAGCCCCACTGATCACCTGCATG[CT]GCCA GGTATGGTGGGGGTGATGGACGTGGGTTTGCAGCCCCCTCCACTGCTCGATAAAGGC
WI-12018	31 A T TCTGACTT	GGCAGCCAGC TCTGACTT	GGAGAGATGAC AGAAACAGAG AG	TTTTTATCTGTCAGGCAGCCAGCTCTGACTT[A/T]CTCTCTGTTTCTGTCATCTCTCCCCACATACCA ACTTCTTACCATGATGATTATACCAATAATACAGTTCTTATATAGGGGCTCTGGAAAAATTAGAC AGTGAAGCATGTTGCAG
WI-14162	57 A G CCTC	TGGCCTCGCTG CCTC	AGGGATCAAA GAGAAAAGGC	TTTTTCGTTTGTAAATGATCCGAATGCTTGAGAAGAAACCCCTGGCTCGCTC[AG]GCGCTTTT CTCTTTGATCCCTGAGTTGCTGAGATTAAAGATGAGTGCCCAATGAGAGCTACCAAGATGTAGTCG AGCGG
WI-15407	92 A G TT	CATGCCCTTTA AGGATTAAGT	TCTTTTCTCTTT TGGTAGTGTGG	AGCATGTAAGGAGCAGTTTTATTGATTGGTATATTACAGGTTTCTAACCCAGCTGAAAAATTCAAATA CATGCCCTTTAAGGATTAAGTTTAA[A/G]CCACACTACCAAAAAGAGAAAAATTATATATGATCACAT ATAAGCAATGGAATCAGCA
WI-12319	109 T C AATT	GTTGAGTATT GTTCTGCTCAT	GGGAAGGTCG GTACATATTGG	TCTGATGTCATTTATTGGCACAATAAATTATCTGTACAACATGGTGTCTAGACATGGCTACACTTTA TACTTTGTCATTTAGTTGAGTATTTGTTCTGCTCATAAATTT[C]CCAATATGTACCAGACCTTCCC
WI-12326	25 G A CA	GACAGACTTC AAAAGCAAAT	AGGTTTGAAAA TATGTATTAAAG TACTTTGT	CTGACAGACTTCAAAAAGCAAATTCAC[G/A]CTTCCAGAATACAAAAGTACTTAATACATATTTTCAAAAC CTGTTTGCAATTTCAAAACAAAGTTAGCGTTTTTGTAAATCAAAATTTGATAACCCGACTAAAAAT
WI-12361	63 C T ---	---	---	TAAATTCACACTGAAGATCTGGAGTATGGGGGGATATAGGAATTTTCAGCATATGTATTAT[CT] TGAATAAATTTACAAAAGTGAACAGTTGGAAGGTACTTATAGGTAGACCTGAGGGTCTGTACCC
WI-11305	87 C T ATCACACCA	CAGACACAGC ATCACACCA	GACCCTCCCGT GGGC	ATACTGGTTTAAATCCATGTCAAATGTAGTTTACAAAGGAAAGGACAAAGTACCTTTGTATAGAATAT ACAGACACAGCATCACACCA[CT]AGGGCCCCACGGGAGGTCGGGGAGACGACACTTTTCCCTGGG AAAGG
WI-11321	67 A G TTTT	GGGAGGAAAA TCCAATAAAT	CATTGGGGAAT AGCTAAACCTT	ATTTTATATGAAGGTTTTCTGGTGAATCTTTTAAAGCAGGGAGGAAAAATCCAAATAAATTTTTTAA[ A/G]AAGGTTTAGCTATTTCCCAATGCTATTTAATACAATGAGGTTAGGACGTTAAGTCTTATCAGA CTGTGTAAGGAGGCCCCG
WI-11324	40 C G TGTGCCCCA	GGATAAATCA TGTGCCCCA	ATCAAGCTTTG GGGCTCT	AGCATACTGCATCTCCTTTATGGATAAATCATGTGCCCCA[CT]GAGAGCCCCAAAAGCTTGTATGACAT TCTGTAAGTTACACAAATGTATCTGAAGAAGTTATCTGTTCTTGTCC

WI-11352a	69	T C G	AGCAGCAGC ATAGTGGAAA	GACCTCTCGTA GGACACTTAGC	TGACACATGGTTCTGTCTTTCCAGAAAGGAGAGAGATCATCTACATAAGCACAGCACATAGTGGAA AGT[C]GCTAAGTGTCTACGAGAGGTCAGATCATATCCATAGAAAACAGCTCTCTTTACTTGCACACTTA
WI-11371	84	C T G	CAGCTTGGAG ATTCTGATTCA	GCCCCGCCCTGA GCAC	TTAGCCCATGCTGTCAATTTGCAATCACCTGTGAAACCTATGAAACATATACCTGCCAGGGCTCAGCTT GGAGATTCTGATTCAAG[C]TGTGCTCAGGGGGGCTGGACATCCATGTTTGGGAAGAGTTGGCGGGGT GATTCGATCGGTATAT
WI-11385	75	T C G	ACAGAAGACT TTCATATTCCT	GATTCTATTCCT AGTCATGGTCA	CTTAAAGCATTATAGTTTGGCCTGATGGTGGACACAGAAAGACTTTTCATATTCCTTTTAAAGTCT TCTTCAGT[C]AGGAAAAAAGCTACAGATTTAAAAAATATGACCATGACTAGAAATAGAATCAGC
WI-11388	88	C A AAGTTC	TGTTTGAATTT ACACGTAAC	TGCCCTGTATC CAAGTTAAAT	TCATGTGCCAGTTAGCTCAGTTGGTTAGAGTGGAGCTCATAAAAAATTAAGAATGAATGTTTG AAATTACACGTAACCTAAGTTC[C]A]TATAAATTTAACTTGGATACAAAGGCAATGTTATGCTAAT
WI-11392	55	T G AATAATAC	GGTATGTTT CTTGAACCTTA	GTACATTCACG TGTTTTGTAAA	TTCTATCATCCATTAAATGGGCAGGTTATGTGTTCTTGAACCTTTAATAAATAC[T/G]CTTTTACAA AAACACGTGAATGACTTTTCTTGTGAGAAGGGGAACACTGAGTCTCCGCTCTAGATCCCAATTAACGTG CATACTCTTCCCCAGA
WI-11396	52	A T T	TTTTGTTTTT AAATGGTGT	AGCTTATTTTC ATATTCACCCA	AAAGAAATAGATGGCATTGTTGAGTTAAATTTGTTTTGAAATGGTGT[T]AT]GATGGGTGAATA TGAAATAAGCTTACCTCATCCACTCTAAAGGTTAGTTGGTATTTTGAACCGTTGTCAAT
WI-11441	100	C A CAGC	TCCCCACCAAC	TGCCAGGGCCT TATTTG	CTGTGAGCTTTTCCCAACTAAACCGTGAGTCCAGTATGCTGGCAGCACGCTGCTGTTCTTGGTG TATTTCCATTACTGAATCCCCACCACCAAGC[C]A]CAAATAAGGCCCTGGCACAAAAGTAAGCTCTCC ATTTTGTAGAATGAAT
WI-11466	26	C T TTTATTTTGC	TGAGAAGCCA	GTTTATTGTTA TAAAAATGAC	ACTTTGAGAAGCCATTATTTTGCAG[C]T]CTTCAGTCCAAAAAAGTCAACATTTTCAGAAATTTTT TATATAAGTTGTAGGTCAATTTTATAACAATAAACTTTCTATTATCTATCTCTCACATACATTT CATGTATCCTG
WI-13364	35	A G ---	---	---	TTTTCTTTTGTGCTCTTTTTTTTAGTAGAAGC[A]G]GGAACAGTTGTCAATACTACCTTCTGTGG TCCCCTGTTAGACAACATACCTTTCTTTTGAATGTAAAATGTCA
WI-11276	41	A G AGCAGAC	GGCAGCCAGG AGCAGAC	TGTACTGAGGA GCGGTG	AGGCAACACTGCTTTATTAGCCCGGGCAGCCAGGAGCAGAC[A]G]CACCGGCTCCTCAGTACACATT CCCCACCCCTGCTCGTGTCTCCCCACTCAGGGCTGGGCATGGAGGGGGGAGGGTAGGTCTGGAA
WI-12210	76	A G A	ACTGGGAAAA CAACTATTGC	TGCTAGTTTGC ATATGTTTTCC	ATTGGAACAACATTAAATTTTGCATCTCTACATATAGAAAGCTGCTTTGAATAACTGGGAAAAACAA CTATTGCAT[A]G]GGAACAACATATGCAAACTAGCATCATTTGCTCTAGA
WI-14186b	88	A G ---	---	---	AATGCTCTGGTTTTATTGAGAAGCTGTGGTCAATTTGATGGAAAGACACATACGGTACAAAATTACA GGTGGTTTAGTTCAATTACATG[A]G]TACAAATCATTAGAGTCTTTTACAAGTCATTAGAGTCTTTGGAT TTT

WI-14186a	52 C T A	GGTCATTTGAT GGAAAGACAC	AACTAAACCA CCTGTAATTTT GTACC	AATGGTCTGGTTTATTGAGAAAGCTGTGGTCATTTGATGGAAAGACACATA[C/T]GGTACAAAATT ACAGGTGGTTAGTTTACATGATACAAATCATTAGAGTCTTTACAAGTCATTAGAGTCTTTTGAT TTT
WI-12234	66 A G	GAGAACACTT GTGGGCTT	GGACCTATCAG TCCATGTTTGA	ATTTTTTTGGCTATAGGTGCTTCTAAACTTGAGCTTGCAAGAGAACACTTGTGGGCTT[A/ G]TTCAACATGGACTGATAGGTCCACCCACAGATTCTAACTGGGTAGTCTGGGTG
WI-12345	37 C A	GTGGCAGGAA AAAGAGGAA	TTGCAGAGGG TTCAGG	GGAAACAGACCTGATCCACGTGGCAGGAAAGAGGAA[C/A]CCTGAACCCCTCTGCAAGTATTCTCT TTCCTGACCAGCTGGCTTGCGCACTTTGTGAGATTTGCAAAA
WI-13416	71 C A A A A	AAATTTTGG AAGTTTTTCAG	AGTGTATAG TTCAATGAATA ATTTCAA	GAAAGGCTGTAATTTTATTTTCAAATTTTGGAAATTTTTCAGAAAAAATAAAATGACAAGAACA CATA[C/A]AAATATTGAAATTTTCAATTTGAACATAAACACTTAGCAGAGGAAGGACTTTTGAT
WI-12310	46 G A	TTATCCCAAG TATAATTTTA AAAAGC	TGTTTTAAATAT GTTTGGTCTT AAA	TTTGAAAAGATGCTGAATTTATCCCAAGTATAATTTTAAAAAGCT[G/A]TTTAGACCCCAACATA TTTAAACATCTCTTACACATACAGAATTTTCAGTTTACAAATATCCAGAAAGGCAATTTCTTAAGCAG T
WI-12086	72 C T	CCGGGAAAC TTGGATT	GGAGTCTCGG GTCITGG	GAACCGAGCTTATTGGAGCAAGAGTGTGGACACTGTTTACAACAAACGTTTCCGGGAAAACTTG GATT[C/T]CCAAAGCCGGAAGACTCCTCCAAGTTCTCACTGTAGTAAGGTCAATTTGGGGCAGA ACAGGAACATGCCTTAGCT
WI-11549	102 T G	GGCATAAAGT TCATAATATTC TTTTATG	GGAAAGTCTGT ACAAATCCCC	ATGTCTTCACAGGTGTATTTTGTAAAGAGTTTGTCTATCTAAATTTTCATATTTATGGCATAAAGT TCATAATATCTTTTATGATCTTTTAAATATCTG[T/G]GGGGATTTGTACAGACTTTTCCTC
WI-11585	79 T C	TGGTTTGCAA AAACAAAA	CCATGCTTCAC TGATACTCC	TTAGAAGGAAAGAAATAAAACACGGTAATGGGAAATCAGTTACAGAGGTAGGAAGGAGCTGGGTT TGCAAAACAAAAA[T/C]GGAAGTATCAGTGAAGCATGGCCTAGAAGTCCAAGAGCAGGGGTAGAGT TT
WI-11604	68 G C	---	---	TTAGTTGGTTTCTCGAAACTTTATGCTGTTTATTTTAAACCAATAGGATGTTCCAGTTACCAAGCATTT G/C]JAGAACTAGGGACTTTCCATGAAAAATAATTAAGAGCTAAGGAATTTGACGCTCACCATTTC TTTGTTACTCTGCAGTT
WI-11614c	108 C A	---	---	CAAAATCAAAAAATTGAGGAGGCAAGAACAGAAAGTAAATCCAGAAAGACTCAGCTGCTTG[A/G]GG GTTCCACCCCTGGACTTGCCAACTTTCAGTGTGAAACTGCAACATAATTAAGTATTCGTCAGCTAC GGACTTCGT
WI-11614a	60 A G	CCAGAAGACT CAGTCTGCTTG	AGGGTGGGAAC ATGCC	CAAAATCAAAAAATTGAGGAGGCAAGAACAGAAAGTAAATCCAGAAAGACTCAGCTGCTTG[A/G]GG CATGTTCCACCCCTGGACTTGCCAACTTTGCAACTTTCACTGTGAAACTGCAACATAATTAAGTATTCGTCAGCTAC GGACTTCGT
WI-11626b	83 T C	---	---	TTGATTTTACTAAGGTCTCCACTGGAACATGAAGGTAGGGATAAGGTGTACAGGATAATATACTACAG ATATTTTAAAAATAAA[T/C]TACTTAATAAAGAAATTAGCCATACCACATTTGTTCCATTGTCTAC AAGAACAAATTGGCAATGA



WI-11626a	39 G A G	TCCACTGGAA CATGAAGGTA	GTGGTATGGCT AATTTCTTATT ATTAAGT	TTGATTTTACTAAGGCTTCCACTGGAACATGAAGGTAG[G/A]GATAAGTGACAGGATAATATACT CAGATATTTTAAATAAATACTTAATAATAAGAAATTAGCCATACCACATTGTTCCATTGCTAC AAGAACAATGGCAATGA
WI-11627	23 T C A T T G C C T C	CCTTTCCCTCC CATTGCAACC CATCTCAAG	CAITTTGCAACC CATCTCAAG	ACCCCTTTCCTTCCATTGCTCTC[T/C]CTTGAGATGGGTGCAATGGGAAGTAAAGCAAAAAGGG AGATGAGAAATACATGATGCCCTTTTGTCTGGCTTACTTCCATTGCAATGCAAGTCCATCCATG
WI-11636	61 A G T C C T	GGACTTAAAA AGATCTGCTTA AGATCTGCTTA	AGAACTTGGCT AAATAATTTTAT GTAACACT	TCAGAAATGTTGCAAGCAAAATACTATTTGTAAAGGTGGACTTAAAGAGATCTGCTTATCCT[A/G]TA TATCCACATAAECTAGTGTACATAAAATATTAGCAAGTTTCTGTGACAGGTGCTCAGTAAACAC TTTGACTCCTTTTTGGTA
WI-11537	119 C G T	ATTGCTCATCT TACTCTGACCA T	GACCCAGCAA AAAGAAATGAT T	GTACCATTTCTTATGGTGGCAAAATAGCAAACTGTGAGTAAACGAGGGCAGCTGAATAAATTTACAG TATACAAATATTAGAGAAATATTATGTTGCAATTGCTCATCTTACTCTGACCAT[G/G]ATAATCATTTCTT TTTGCTGGTCCAGGACC
WI-11654	37 G C C T G	GCCAAAAGAC TATTCAGCAA	GGCTCTCCCG GACAGTTT	AGTAGAACATCAGTGCCAAAAGACTATTTCAGCAACTG[G/C]JAAACTGTCTGGGAGAGCCACTCCAG AGCTATTTCTAAGACTTCTGTGGTGTTCATCTACTCTACTCAGAGTTACACTCATATTTTCATATTTT ATTTTGGGTGTGGGT
WI-11656	28 G A A A	AATGATTTTAG AAGGAATGC	CAAGGCTTTGT CCTCAAGTAAA	ACCTGATTGATTTTAGAAGGAAGTCAA[G/A]CTTACTTGAGGACAAAGCCTTGCCTGCAGTTGTTT AAAATGCTCTGAAACAATCAGATTCAGCCTGGAT
WI-11680	55 T C ---	---	---	ACAGATACTTTTCCACGCAACATTTCTGAAATGAAAGCTTGATTCCTCCCTTTT[C/T]TGATATAA GGCTGGGAAGGTGGTTGGCCAGACCGTACATCTTTT
WI-11696	47 T C A G G G A C A G	TTATCACAGC AGCCAAACCTT	GGCATTAGAGA AGCCAAACCTT	GTCCAAGAACAAGATACTTTGACATCTTTATCACAGCAGGGGACAG[T/C]AAGGTTGGCTTCTCTA ATGCCACCACATCTTGTTTTTCAGAACTTTCCACTTCGCC
WI-11702	69 C T C A G C A G	GAATAATACT GAAATAACCA CAGCAG	AGAACAACCTT AAGCAAATTTAT ACTGAAA	TTACATGTGGTCAATGGTGACATACTTTCAATAATTAATAATCGAATAATACTGAAATAACCCACAGC AG[C/T]TTTCAGTATAATTTGCTTAAGTTGTTCTAGAAAACACTGCTAATTTTTGTTTCTGCAGA
WI-11706	60 C T T C T C T C T T	TGGCTGGAATT TTCTCTCTT	ATCACCAAAAG AACAAATCCA	TGCTGATTCATCGCTTCTACCATCTGGCTGGAATTTTCTTCTTGTACAATTTATTTGC[T/G]GGCTG GAATTTGTCTTTGGTGATTTGTCCCTTGTCTGCT
WI-11709	105 T A T T C A G T T T G C	AGAAGCTTGC TTTCTCTCTT	TCATTTCTCT AATTTTACGGG A	AATATCATCACTCATATCAGGCATGTTTATAAAAATGAGAGATTATGCTCTTTTGGCATACTTCATC TTCTTCAGGACACAGAGAGAAGCTTGTCTCAGTTTGC[T/A]GTCCCGTAAAAATTAGAAGAAATGAAT GGCCAGATGGATGGAAA
WI-11710	103 C A C A G T C T T C A	GCACCTAGCCT CAGTCTTCA	GTGTGGAGGAG GGAGGAG	TTATTACCATCAACCTGTCCCGAGCTTCCAGCACAAACAGCCAGCCACACTCTAGACACGCCCTTCAC TCCAGTCCATTCTGGCACCTAGCCTCAGTCTTCACT[A/G]CTCTCCCTCCTCCACACACTCCTTC

WI-11715b	123 C T	AGGCTGGCTGC AGCTT	TCCCATCCTG TGGCT	AGAATGGAGCTGTTGGGAGGGACATGCACACAATGTAAAAACAGACAAAAATGCATTACAACCTGTGG TGTAATGTGGCCACTATGAATCCCTATGTATAAGAGGAAAGAGGCTGGCTGCAGCTTCCTAGCCAC AGGATGGGACTGGGAAGA
WI-11715a	49 A C AAA	GCACACAATG TAAACAGAC AAA	CATTACACCAC AGTTGTAATGC A	AGAATGGAGCTGTTGGGAGGGACATGCACACAATGTAAAAACAGACAAA[A/C]TGCAATTACAACCTG TGGTGAATGTGGCCACTATGAATCCCTATGTATAAGAGGAAAGAGGCTGGCTGCAGCTTCAGCCAC AGGATGGGACTGGGAAGA
WI-11727	43 G C TCAACA	AACAATCCTT AAAACAATA	CCTGTGTTTG TGTTGCAG	CTGGATTTCCTATACCTAACATCCTTAAAAACAATACTAACA[G/C]CTGCAACACAAACACAGGC AAATGAAAAACAGATGCCAGACAGACCCACCACCATGGCACACAC
WI-11728	16 C G ---	ATCTGTGTTT TCGCTG	---	TTTTATTATCAAACT[C/G]CAATTCCATTCACAAATGTAAGTTATCATCAGCTCCCCCATCCACTTT CTCCCATCTTCTATCTCTTTCCACCCCTAGACTTTCTCTCCCTACAAACCCGGGTTCCAAA
WI-11758	61 A G	ATCTGTGTTT TCGCTG	TGATTGGCCCT GTGGTCTA	TTTTCTCTTTTATTAGTCGCTATACTAACTAGAGGAGAACTGTGTGGTTTCGCTG[A/G]TAG ACCACAGGGCCATCACACAGCTTCTGTAGAGAACTGGAGATGCCAAGATCACCATCA
WI-11295	37 A G AATAAA	GCCTCACAAA GTATTTCTAA	AAAAGTGCTCA TCTGTGAATC T	CCGGCCTCACAAAGTATTTCTAAATAATTTGCT[A/G]TAGAGTTACAGATGAGCACTTTTCA CATTAGGTGATATGCAACAAATCACTATTGGCTCAGCAGGAAACAGACTTTT
WI-11773	93 T C ---	GGCTCAGAGA GCAAGGGAA	---	AGCACATGATATCTGCCTGGAGTTTCTGTGAGCTCAGCAACAGCAGATCAGAGATTAAAGAATT ATTATTGCCTCTTTTTCCTCCCT[C/G]GTGATTGTTAATTAGGGAGTCAAGGCCAAGTTATC
WI-11282	42 C G	GCAAGGGAA	AAACTCAGA CTGTAAATTTT GTGTG	CATGACAACTCTTTTATTATTAATGGGCTCAGAGCAAGGAA[C/G]CACACAAAAATTTACAGTCTGA GTTTGGGCGCAGAGACCCCTCTCCACCTTTTTCATGCCTGTGTGTACACACACACTGTCCAAAGCCTC AGA
WI-11790	28 A G	CCCAACTTACC AAACCTCTG	CGGTAGGCGAG GCTAAGC	TAATTCACCCAACTTACCAAACTCTGT[A/G]GCTTAGCCTCGCCTACCGTACACATGCTCAGAGCAC TTACATTAACTACAATGGGCAAAATCATCTAACACAAAGC
WI-11879	61 C A	AGTATACA	GATAGTTGAAC CTCTTCACTTT ATAAAA	TTTTAATTCCTCAAGCTTACAACCATCTTTTCATCTAATCTGTGAGGTATTTAGTATACAG[C/A]AGT GATTTCTCTCTTCTTTTATAAGTGAAGAGGTTCAACTATCCAGACAGTCCCATCTA
WI-12469b	91 C T	AGTTTAAA	CAATTTTCAGA TTGTCTATAGC AAAC	TTTACTAATTTCCATTCTCCCTCTTTTATAGTTTTTAAATGGTATTAGAAAAAGTTTAAATTACAT ATGTGGCTTATATTCTATTCTA[C/T]TGACAGCACAGTTCTTCAAAGTTTGCTATAGACAATCTGA AAATGGGTTCTGAAT
WI-11906	52 A G	ATCTGAA	TGTTATAACAT CAAAGAAAGA	ACATTTGAGTAGGAATGACTTTGTGTTATAACATCAAAAGAAAGAAATCTGAAT[A/G]TGAGGGAACCTG CAGAAATTAACCTTCAGTCTAATCTCAGAATGCCAGAGTAAGATGAACCCCTTTACAG

WI-11909	78 A G	TTGTGTTGGG TGGTCAAG	CCTCCTCTGAG ATTTTCTGAAT AG	GCAGTTCTCTGAAAGACAAATGGATTGTGGAGCATACTGAAGACTATTCTCTAAATGGCTATTGTGTTG GGTGGTCAAGAG/GCTATTTCAGAAAATCTCAGAGGAGGACAAATGATAGTGCAGCTGCAGCCAGCTCG GACTGGCTTGCAAGAGTC
WI-11806	60 T G	CATGAAGAGT GGGCAGTTCA	TCTGTAAAGC CAATTTTATAT ACTAATAA	AAAAATACCATTAGCATCAATTGCCCCAAAGTTGGCAGGCATGAAGAGTGGGCAGTTCA/T/GJTT TTATTAGTATATAAAATTGGCTTTACAGGAAGCAITATGG
WI-11946	31 C A ---		---	CCCTAGTGAATACAACCTTTGTCTGGAGAC/C/AJCCAGCTAGTCTAAGAAAACTTCTTAGGCTGAG CTCTCTTGGGAATCTAAGATAAAGAACTGAGATCTCTGGGAAGAGGAA
WI-11965	65 T G	TGAAGATCAG ATCTCTGGTTT GATTT	CAGCTGTGGTG AATGTTGAT	ACAAAATTCACAGTACAACACTGCTTATTTCTTGCTTGAAGATCAGATCTCTGTTTATTTAA/T/ GJATCAACATTACCACAGCTGAAGGAAATTAACCTGAACCT
WI-11027	90 T A A	TGCOCTACTAC GCTTTTAAAAA	TGAGGAAATGT GTTACAGTATT TTTATT	ACCTATTTGAAACTGCAGAAAGGCGAGGACAAAACAAATCACTTCATAGATTTTCTGGGAAATAT TGCCCTACTACGCTTTTAAAAA/T/AJATAAAAATCTGTAAACACATTTCCCTCATTTCTCTTACGA ATACTTCTTTTGTATTTGCAATTTCTATGGCATACACAGAGGCACCTCCTCAATGCCCTG
WI-11049	95 C T ---		---	TTCTGCTGAAGATCACAAAACAAATTTCAACCTCTGTGGTTCAAAAATAATTTAAGGATCTGTACCTTT GTGTTTATTTCTGTTCACACTAAGGA/C/TJAGACTTCAGAAAGGCATAGCTTCCCTTGTAAACGTTTTT AAACATCTTTTTCATTTGTAGGAAGGAACATTTTCAAAAGCCCAA
WI-15488	69 C T AC	AAAAGGACAG CCAGATATCA AC	TTTCCATCTTA TTTCATTTCTG TAAC	CAACATTTATCAAAACATGGTAGGAAAAGTTCTCACTCTGCACATAAAAAAGGACAGCCAGATATCA AC/C/TJGTTACAGAAATGAAATAAGATGGAATAATTTTAAACAAATTG
WI-13654	49 A G	AACAGTTAAT GAAACACATC CGT	GGCTGGTGAAA TGATGTCAT	TGCTCAATTTAATGTGATAATCTCCAACAGTTAATGAAACACATCCGTA/GJGTATGACATCATTT CACCAGCCAGCTACTTCATGTGGCAGAAAAGGTAACCTTTTCCCATTTTACAGACAAAACCCAGT
WI-11070b	135 C T ---		---	ATGAGACCCCTGCTTTGAACGTTAAACGTTTGGAAATAATGGAAAAGGAGCTAGGACAATCTTGCTT TCAAGTAAAAATTGTGACTGAGCAGAAAATCAGCCAGCTATCTTGGGTGCAGAGAGGTACTCCAAGTA C/C/TJGTGGGGTTCTGATGACTTCCACGGTCACTGGGGATCCAACAGAAGGGAA
WI-11070a	110 G T T	CAGAAAATCA GCCAGCTATCT	TGGAGTACCT CTCTGCACC	ATGAGACCCCTGCTTTGAACGTTAAACGTTTGGAAATAATGGAAAAGGAGCTAGGACAATCTTGCTT TCAAGTAAAAATTGTGACTGAGCAGAAAATCAGCCAGCTATCTTJG/JGGTGCAGAGAGGTACTCCAA GTACCGTGGGGTTCTGATGACTTCCACGGTCACTGGGGATCCAACAGAAGGGAA
WI-12020	121 T C ---		---	AATCTTTTATATTTCCAGCTGTTGAGACAGTATTTTGGGGGCTGATGTTACCTCTAGCGGCGAAACC AGAGCCAGCTATTAAAGCAGCCAGAAAGCTACAGTAA TTGAATACATGACCATT/T/CJCTCTTTTAGC ACGTTCTTTGTCTCCTC

WI-11076b	142 G A ---			---	CATGGTCTGCCAGCTTACAGGAAGCATGGTCTGGCATCGGCTTATCTCTTGGAGGCCTCAGGAA ACTCTGAATTATGGCAGTAGGCAAGGGGAGCAGGCGATGTACATACCCAGAGCAGGAGAGAG AAAGAGAG[G/A]AAGTGCCACACATTTTAAATGATGAGTTCTCTCAAGGAACCTCACTCACTGTCAT G
WI-11076a	106 T C AGCA	AAGGGGAGC	TCCTGCTCTGG	GTATGTGAC	CATGGTCTGCCAGCTTACAGGAAGCATGGTCTGGCATCGGCTTATCTCTTGGAGGCCTCAGGAA ACTCTGAATTATGGCAGTAGGCAAGGGGAGCAGGCGATGTCTACATACCCAGAGCAGGAGAGA GAGAAAGAGAGGAAGTGCCACACATTTTAAATGATGAGTTCTCTCAAGGAACCTCACTCACTGTCAT G
WI-14263	49 T C GGCATATTC A	CGCAGAAAA	AATTAGTATGG	GATTATTCAAA	ACCTTTAAAGTTTCTCCCCACCTACTCCCCGAGAAAAAGGCATATTCAA[T/C]TGTCCTCACTAAATT TTTGAATAACCTAACTCTCCCTTTGTTTCTACTAAGAGAGGTTCTTTTGGCTACAAGTAACA
WI-14267	28 T C ---			---	AATTATTGCTGAAATTAGGAAGGAGCA[T/C]TGAATGGGAAGGGGAGGTTAGAGAAGACAGAG ATTTAAAGAAAGCAAGTACCATTTCCTCAAGTATAAACTCGTA
WI-13892	50 G A TAGAAC	CTTTTCATTT	TGATGATGTC A	TACTATAAAA	GATTTGTTTTATTCTATCTCGCTTTTCTATTTTAAATAGAACA[G/A]CTTTGATTTTAGTA TATGACATCATCATGAATTTTCTCTTACTTTGTTAGGCTCCACCTCAGTAGTTTGACAA AGGTAGAATGAGTTCA
WI-15288	108 C G TCCCTCTCTC	CATGAGAGGA	AAAAGCTTCTT	TCCCTTGGA	ACCTCTTTCTGATGACACTGTACCTGTAGGGGCTAGAGAGAAAGAGTAGTAGCTCTTTCG TACAAATTCAGGATGCAGGGCATGAGAGGATTCCTCTC[T/C]TCCAAAGGAAAGAGCTTTTGGC
WI-13951b	88 G C ---			---	AATAAATGGAAGGAGTGAACAAAGTAATGAACAAA[C/T]JAGACCCCGATCAGAGGAAGAG ATGGCTTCTTGTTAATTCTGGAGCAGATTCAAGCAGCAAAATTTTACTGAACACTTGCTATGTGCTG G
WI-13951a	39 C T CAAA	GGAGTGAACA	TTCCTCTGATC	TGGGGTCT	AATAAATGGAAGGAGTGAACAAAGTAATGAACAAA[C/T]JAGACCCCGATCAGAGGAAGAG ATGGCTTCTTGTTAATTCTGGAGCAGATTCAAGCAGCAAAATTTTACTGAACACTTGCTATGTGCTG G
WI-13264	25 G A TTGCCCAT	AAAAAGGCTC	GGAGGGAGAG	ACGGGAATA	GAGACCAAAAAGGCTCTTGCCCAT[G/A]TATCCCGTCTCTCCCTCTGACTGACCCCGAGTGTCTT ACAATGAACATCCCTCAGCCCCATGGCATGGTGATCCCTCTCTTGGGATCTGTGAATATAACCA ACTGTCTTGCAATGGC
WI-13960	39 A C TGATAGA	AGCAAAAGGA	CATGAAAGGA	CAAATTTGCAT	TTATTTGTCATTAGCAAAAGGAAGTTAAATACTGATAGA[A/C]GATGCAAAATTTGTCTTTTCATGCA TTTGTGGAGCAAGTACTAATCTGTCTACTGTCTATTTCCCTCACAAGGAGTTGAGCCCCCTAGATGAC C
WI-15843	62 C T CAG	ATCTTATAACC	CTCTGGCTCAG	ACTTGCTCT	AACTCTTTATTGTTTAGCTAGCCCCAGTGACTTTATGATCTTATAACCAAGAGCCCTTCAG[C/T]JAG AGCAAGTCTGAGCCAGAGGTTTATCACACTTTGTCTCTCAGGCTCCACCGAAGGAGGCTTGGCT

WI-13983	52 G A	TCTCTCCACT CCTTAAACCT	CAATACTCTCT TAGCCCAGTGG	TTGTGTATCTGATTTCGAAACATAGAAATCTCTCTCCACTCCTTAAACCT[G/A]CCACTGGGCTAA GAGAGTATTGTACAGAAATATGCACTCACTGACTTAAACAGAAATAGAACATCCAGGCACTCACTGAGA
WI-13850	51 A G TT	AATCTCAGGG TCACAGCTTTA	TGTTCCCTGAC AATGTTTGTA	CATGAATCTCAGGGTCACAGCTTTATTTATAGATTTTTAACACAGCCAT[G/J]TTACAAACATTGT CAGGGAACATTTACAGAAATAAATAAGATGGACTTGCAGGTGTAAAAGATTACACTTCA
WI-15295	27 G C A	TGTCAGTTTGA ATGTATTCTCTG	TGAATAGTTGG CAAGGAAAA	AGATGTCAGTTTGAATGTATTCTCTGAT[G/C]TTTTCCTTTGCCAACTATTCAATTATGACCATCTTTTC CTCGTCAAGTGACCTGCCATCATCAAGAAAAAGGCCCGAAAAATATGAGTGAGACTCA
WI-14284	55 C T ---	---	---	ATTTCAAAACAAATCCAGAACAGGTTCTCACACTTTGAGCCTTTAGTGCAAAAACA[C/T]TATGCCAT GCGGGAATAAAATGCTTATCCAGTGGAGCGCTCCCTGATGCAATTGA
WI-14288	85 G C CCCAGAT	CCGCTGCTATT CCCAGAT	GGTCTCTTCC ACCAAATCTT	ATGACCAGACCAGAGCCCTGTCTATATGAGACAAACAGGTGGCCATACTTGGGTGGAGGGATA CCGCTGCTATTCCAGAT[G/C]AAGATTGGTGAAGGAGACCATGACAGATGACAAACGG
WI-13522	33 C T ACAAC	TGATGTAGTTA CCCCACTAAT	CATAATATTG AAGTCAGTGGT	TTTATTTTGATGTAGTTACCCCACTAATACAAC[C/T]GAGAACCCTGACTTCAAATATTATGAGAG AAAATTACTCCAGGGAATTTTGCAGAGAAATAATA
WI-13529	42 T C TTACCA	CACAAACATT TATTGAACAG	TCTATACACTT CTCACTCTCTT	AAATATGATTCCATTCCACAACATTTATTGAACAGTTACCA[T/C]AAGCAAGAGAGTGAGAAAGTGT ATAGAGGTGATTTAAGAGTGGTCCCTGTCTCGAGGGTTTATAGTCTAACAGGGGAACAACCTCTC A
WI-13859	84 G A ---	---	---	TTATTTGTCAGAAATTCAGAAATCAGAGTCTCTACTGGGCAAGTAGAAAAATAGAAAAAGTTTACTAC TTTGAAAAGGAAACTAT[G/A]JACAAACAAGTATATATTCAGGAAAGGGACTCCTAGAACTTGAGCA ACA
WI-13536	29 T C ---	---	---	TGAAAGGATACAGAAAAAACTCAGCGAAG[T/C]GAAAAGGTGGATAGCGTGGAGTAGAGAGAAAT TAAGCACCGCTTCCAGTTGTCTCTCCAGTGCCATTACATGGAGTACACTTAATTTTCTCAGCA
WI-13373	52 G A ---	---	---	TTTTATTGTTGGTAGAAAAACAGGCTCTTTAACACTGAATAAACATCTCAC[G/A]AACTGTCGCTC CTAGATTACAAAAAGTCAAAACCAATTTCCCTTGAGCGCGGCCCTTGAATCTGACATTCAAGTCAC CGTAATAGAAACCAGAGCT
WI-13477b	61 A G ---	---	---	TTGGTTTTAATACCTCTTGTGGATAAAAGGACATTGTTTTTCATTAGCTTGTCTTCAA[A/G]GAC AGAGAAATAAGATAAAATACCTTAAAGAAATTAATAAGAAATTAAGGAAACATGTACCAAGGTGG TTTTAGACTCTCCTCAGTT
WI-13477a	32 A G AAGG	TTAATACCTCT TGTTGGATAA	GAAGACAAGC TAATGAAAAA	TTGGTTTTAATACCTCTTGTGGATAAAAGG[A/G]CATTGTTTTTCATTAGCTTGTCTTCAAAGAC AGAGAAATAAGATAAAATACCTTAAAGAAATTAATAAGAAATTAAGGAAACATGTACCAAGGTGG TTTTAGACTCTCCTCAGTT

WI-14297	86 A T G	AATGTTGGGT ACTTTTCCAA	TGTGCACATTC AGAAACATTTT	CTGACTTTATTAGCATGCAATGCAATTTATTCTGGCAATAAATTAATATATGTCAGTTATAAAAAAT GTTGGGTACTTTTCCAAAG[AT]AAAAATGTTTCTGAATGTGCACACTAGAATATATGCAGAAATCCTTT AAACAGTCGACT
WI-12229	89 T G AAA	CATGTGCACA AAAAGAGTAA	ACATGTGAATT GTCCCAAAAA	TCCATGTAATAATTCTCAACAGAGAACACTATCTTTAAATGAAGGATTTACCATTAAGAAATCAACA TGTGCACAAAAGAGTAAAAAT[AT]GACCAAAAAAATAAGATTTTTTGGGACAAATTCACATGTT AAAAAT
WI-13582	43 C A AGACTGGGA	TGCAATCTAG	TCTGGCGAGTT AGATTCCA	AAGGTGCCCCCTTACTGGACCAATGCAATCTAGAGACTGGGA[C]ATGGAATCTAACTGCGCAGAG AAATCAAAAGACCGATGGTGTGAATCTGGGGCAGCTTCAAAATTTCTGCCTCCTAAAAACATTTTCAC CCAATTTTTCATTATTGCC
WI-13857	28 A G ---		---	CTGAGTTGATAAAATGCTTTTCTGAAC[A/G]TACATTTAGGTATCTGGCACAATTAACCAAATGT CTGCCAATTTTGTGTAGCTTTCATACAGTACAGATTTCATTGATGTGCTGCCACATCTG
WI-15809	77 T G TGTAATGCC	TGGTTTCTGT	ATTCAATGTTT GTAAA	GTTTAAAGTTGCAGAGATGTGAATGGTTTACAAATCTGAAGCTGAAGTTCAATCTTTGGTTTCTGTT GTAAATGCC[TT/G]TTTACAAACATTGAATTAGCTACCTTAAGTATTGAAGAGCTTCCATT
WI-15892	123 A T ---		---	TTAATCAGTCTGTGTCAAGAAGAAACAGGACTTGATCAAGCTTCCAGCCCTCACACTCTATCAGCA TAGCAATTTTAAAGGATCAGAGCTTTGTTTACATTTGTCTAAACCAAGAGAAGGA[A/AT]GGAATCA ACTCCACAGATCAACATGT
WI-15801b	81 T G AA	CATACTCCACT CTAGCTGCAGT	AGAAGAGTGG ATGGGATGC	TCCTTTATTCCAAGAATGGGAAGCGCAATTTTCATTGGCTTGAATGAGAAAGCTTCATACTCCACTTA GCTGCAGTAATAC[TT/G]GCATCCCATCCACTCTCTCTCTCTTTTGAAGTAACTCTTCAAAAGAACT GCTGAATGTCTCTCTC
WI-15801a	24 G A AATGGGAAGC	TTTATTCCAAG	TCATTCAAGCC AATGAAAATG	TCCTTTATTCCAAGAATGGGAAGC[G/A]CATTTTTCATTGGCTTGAATGAGAAAGCTTCATACTCCACT CTAGCTGCAGTAATACTGCATCCCATCCACTCTCTCTCTCTTTTGAAGTAACTCTTCAAAAGAACT GCTGAATGTCTCTCTC
WI-13763	59 T C GCAGTGAT	GGCTGGACACT	CCCACACCTGC COCT	GCTCGTAATGAGACAGAACGCTACAATCTGTTCAACACTGGGCTGGACACTGCAGTGAT[TT/C]AGGG GCAGGTGTGGGCAGGGTGGGGCTCTGAGCCGAGGACAAATGTCCATGGCAGAGCTTCCAGAA
WI-13578	48 T A AACC	TCAATAAAGA GCAGAAAGAA	CAGTGTGAAG AACATCTTTT GTC	TTTTTTTTTGGTGAGTGTTGTTCTTCAATAAAGAGCAGAAAAGAAAACCC[TT/A]AGACAAAAAGATGTT CTTACACACTGAGCTTTACACAGTCCCAACATGATATTTTCCCGAGGGGCAAAAAGA GAGTCTTCCCAGAAACCTC
WI-13789	62 G A AGGGAG	TGGATGGCTG	CAGTGGCTTC CTCTGTTT	TCCAAGGAAAAAGAAAACCAATCAGTGAGAAAACCTCAAGAAATGGATGGCTGAGGGAG[G/A] GAACAGAGGAAGCGCACTGGGGCTGGGACTGAATATGGACAGTGGATGGTAGGCTCCTCCTCTCTT GAGGTCCCT
WI-13594	66 G A AGC	TTTTTAACACA GATCACAAAA	CCTTTGGGCCA GTACTTTT	AATAACAAGTTTAAAGTTCGAGCTGCAATGTTGGCAATGCAGGTTTTTAACACAGATCACAAAAAGC[ G/AT]GCACAAAAAAGTACTGGCGCAAGGACAAAAATAATGCTAAGAAATTAGGCCAAACAGCTGC

WI-15625	40 C T ---	---	GTTCCTCCACCTACTCCCGCAGAAAAAGGCATATTCAA[C/T]GTGCCATACATAATTTTGAATAA CCTAACTCTCCCTTTGTTTCTACTAAGAGAGGTTTCTTTTGGCTACAAGTAACA
WI-13367	84 C G A	CCACTGAA GACTCACCAG CCCT	GTCTCATTCTGTCTAGGCTGTAAATTTTCAGTTTAAACAAGTTCTTATGTGATTTGTGCCACACT GAAGACTCACCAGAA[C/G]AGGGTGGGTGGGAATACTTAATCAATATTTGTGGAATTTACCCGAT GAAATCCAGTTATTCTCT
WI-13600	26 G T	TTAATGAGCC AAGCATCCAT	CTCACTTTAAATGAGCCAAGCATCCAT[G/T]CCATCATCTAGTAACAAATTTCAATATGCACATTATAT TATACTGGAAACAAAGAAATACGGATTGTGTAGGGAAGAGCATAGAGGACCACCATCAGCAACCCCTCT TGATTCCTTCTCTACCC
WI-13602	89 G T	TCCATTCTGGA GACAACACA	GATAGGAAAAGAAGAAATGAAGTCAATAGTCTTTAGCAAGCCAACTAGCTCAAGGAATAGACAGCCC CTTCCATTCTGGAGACAACACA[G/T]AAATCTATTAAATATTGAATATTGTATGAGGTATGCACCT GCCC
WI-13650	76 A T	AAAGATTAC AATATTTCACT TTTTAAAC	GCATTAAACATTAAAAATCTGAGGGATATTGATGAGAATATGATGAAAGATTCAATAATTTTCAC TTTTAAAC[A/T]TAAAAAATACTCTCTCATATCCTAGCCTGATGACTTAAAAAGTTACCGG
WI-14319	83 C T A	CAATCAAGG CACAAAGCTA TG	TGTTTGTATTGAAGAAACATCTCTAAAAATACCATCTGAGTGAAGATAAAAAAGGAAATAGCAATT CAAGGCACAAAGCTAAG[C/T]ACATGCAACAATATAGATGATTGGGGTGGGACAGTACAGAATT
WI-13528	80 A G AAAA	CAATACATTT GCATTTTCTTA AA	ATTGGATACATGCTTTTAAAAATGGTAGCTTTTAACTGTATCAATACATTTTGCATTTTCTCTAAAA AAAGAAGACATTT[A/G]TTACAGAGAAAACCTGTGGTATCATGCAGGAAAAGCAGAAAAAAATTT
WI-13909c	93 A T ---	---	ACTTAACTGGCTTATCTTCACGGTAATCTATCTGTATTTCCAGTGAAGTTTCATCTTCTCTACACT CTCTTCAAACTCGAATATCTTTTTCATGAGATGCTAGTGTCTAGTACCCACTGCAACATCTCTCAA
WI-13909b	80 G A C	TTCCTCACACT CTCTTCAAAC CTC	ACTTAACTGGCTTATCTTCACGGTAATCTATCTGTATTTCCAGTGAAGTTTCATCTTCTCTACACT CTCTTCAAACCT[G/A]AATATCTTTTCAGAGATGCTAGTGTAGTACCCACTGCAACATCTCTCAA
WI-14323b	86 C A ---	---	TTTTTATTGAATTCCAAATGTAGCAAAAATCATTAAACAAAATTAATAAAGGGACAGAAAAATTAAG AATCAAAACATCTCTGGAC[C/A]ATGGGAACCTTTGAAAAGGCATGGCAGTGGAGACCAGTAACATA
WI-14323a	78 T C ACATCA	ACAGAAAAAT TAAGAATCAA GTTCCCAT	TTTTTATTGAATTCCAAATGTAGCAAAAATCATTAAACAAAATTAATAAAGGGACAGAAAAATTAAG AATCAAAACATCA[T/C]CTGGACCATGGGAACCTTTGAAAAGGCATGGCAGTGGAGACCAGTAACATA
WI-15389b	104 G A AAA	AGATAATGAA ACATCTGCGA TCCCACACTT	AAAAATTGACAAATCAACTAGCTTGTCTTTTGTCTGTTTGGAGACTACCATTTTCAAAATTTATTATGT AATACACTCATCCAGATAATGAACACATCTGCGAAAAA[G/A]AAGTGTGGGAATCACCTCATCTGTGC

WI-15389a	33 G A TC	AATCAACTAG CTTGCTTTTG	TTTGAATAATG GTAGTCTTCCA AA	AAAAATTGACAAATCAACTAGCTTGCCTTTTGTCTG[A/J]TTTGGAAAGACTACCAATTATTCAAATTTATT ATGTAATACACTCATCCAGATAATGAACACATCTGCGAAAAGAGTGTGGGAATCACCTCATCTGTGTC TGTAATCTGCTTACAGTCCCTTTGCAAGACAGACATATGTTTTTGCATAAAGATATAAAATTGCTTCAT TTTAAACTAAATTAGTGTCTT[C/J]TTTAAATTATGAACCTTTTGGTGAATTATGAACCTGTACCAAAC C
WI-15747	88 T C AGTGTT		TAATTT	AAGAAAAGCACATACATTTCCAGAAATTTGGAAAAGTTCACTCTGCAGCAGCTGAATGGCAGATGGT CTCTCGGATGAGTTCTTCTCGTTAAGTGTGGATATAC[T/G]GCTTGCACCTTTTACG GAGGATTCGGGACAAC
WI-13752b	117 C T ---		---	AAGAAAAGCACATACATTTCCAGAAATTTGGAAAAGTTCACTCTGCAGCAGCTGAATGGCAGATGGT CTCTCGGATGAGTTCTTCTCGTTAAGTGTGGATATAC[T/G]GCTTGCACCTTTTACG GAGGATTCGGGACAAC
WI-13752a	106 T C AGTGTGA	CCCTCTCGTTA AGTGTCC	CCCTCCGTAAA AGTGTCC	AAGAAAAGCACATACATTTCCAGAAATTTGGAAAAGTTCACTCTGCAGCAGCTGAATGGCAGATGGT CTCTCGGATGAGTTCTTCTCGTTAAGTGTGGATATAC[T/G]GCTTGCACCTTTTACG GAGGATTCGGGACAAC
WI-14339	102 T G TTAC	CCCAATCAAA CAGTACATGA	TCCAGATTTCT GGAAACCG	AATCATTTAATGAATGTTCCAAACACACCCCTTCACTGGGTACAGGTAAATTTCACTGGGATGGAAG CAGATGAACACCCCAATCAACACAGTACATGATTACT[T/G]CGGTTTCCAGAAATCTGGATAC
WI-13744	115 C T AAACTGAA	TGGTGTGAAC	AATCAGGAAA GATAAGCACA GC	TGGATGGATGGATGAGGCCACCTGTGTTCACAAAACACAGTAAATGGAATTCATGCAGCTTTAGAT TTCCCTTGGCCAGCTAGGAGCTTGTGTATGGTGTGAACAAAACCTGAA[C/T]GCTGTGCTTATCTTTC CTGATTCT
WI-14061	68 C T ---		---	CCTTGACTATATTGTTTTTCCAAAATAGGACTATGTAGAAAGAGAGCCCCCGTACATACTTAT [C/T]AACCATTTCAATCCACCATTTGTAAAATCTCATCTTCGGGCTGGATACTCAAAAACAGAT
WI-15719	69 A C CATTACG	ACCTTTTCATC CATTACG	TGATACTGGC AAGAGTTTAA ATT	TTACAGTTGGATTAAACACTACCACACTGAATATACTGAATTAACCTATTCAACCTTTTCATCCATTGAG C[A/C]AAATTTAAAACCTCTGCCAAGTATCATGAACCTTACGAAGAGGAGATAAGAGATCTGATC
WI-13810	106 T C AACTT	CTCTAAATCG ATACATCCAA	GAACTGATGCT TGCTGCTAACT	TAATCCATCAATCTAAAATCAGACATAGATCAAAACAGAAAGTACCACAGTATGCTTTATTTTGCA GGTATTAAATGGTCTCTAAATCGATACATCCAAAACCTT[C/J]AGTTAGCAGCAAGCATCAGTTCTTC
WI-15736a	27 G T CACA	ATTTTATTAC ATTAAACTTG	GTTCTTTGATA TGTGGCTTAGT TTT	GGATTTTATTACATTAACTTGCACA[G/T]TAGCAAAAAAATCAAAAACATAAAAACATAAGCCACA TATCAAGAACAATATACAATAGAGATTTGAAATTTCTCAATAGCATTTGGAAGGTATTTCCATAAATA TCAAACTGCACACTATAAAAGTGTCTTTAAATGCAGCAGCAGGAGATGTGAAGACACAAATGAAC AAGTGC[G/A]TAGTGACACATAGCTGTCAACACAGTG
WI-13785d	72 G A ---		---	TCAAACTGCACACTATAAAAGTGTCTTTAAATGCAGCAGCAGGAGATGTGAAGAC[A/C]CAAAATG AACAAAGTGCAGTGTGACACATAGCTGTCAACACAGTG
WI-13785c	56 A C ---		---	



WI-13785b	40 C G ---	---	---	TCAAACTGCACACTATAAAGTGCTTTAAATGCAGCAG[C/G]AGGAGATGTGAAGACACAAATG AACAAAGTCGTAGTGACACATAGCTGTACACACAGTG
WI-13785a	27 T C TGCT	AAACTGCAC ACTATAAAG	TGTTGTGACAG CTATGTGCAC T	TCAAACTGCACACTATAAAGTGCTTT[C/J]AAATGCAGCAGCAGGAGATGTGAAGACACAAATG AACAAAGTCGTAGTGACACATAGCTGTACACACACAGTG
WI-13793	88 C G ATAGG	GGATTTTACAT TCAGCCTAGAT	GGGCAGGAGGA TTTGTTACT	AGAAACCAAGTATATCATAGGCAATAAATAAGTTTTTACCCCAATTGATACAACATAAGGGATTT TACATTGAGCCTAGATATAGG[C/G]AGTAACAATACTCTCTGCCATAAATCTATGACTTG
WI-13794	52 A G TTCTTTCTC	TCCTCACCCCT	AGAATGGGCTC TTAACCTTGTA	TAGTCTCCTACAAATCCTTCAATCCATTTCTCTCCACCCCTTTCTTCTC[C/G]TACAAGGTTAAGA GCCCATTTCTCAAAACAACAAAAACAACATAGAGCAAT
WI-15729	35 A G GTGTAGACTGC	CTTTGAACCAT	CTCAGCTTCTT TCTAAAGTGCC	TCATTTAAGTGACCTTTGAACCATGTGTAGACTGC[C/G]GGCACCTTTAGAAAAGAGCTGAGACTGAA AAGTCTGTCTTGACTTCCAAGGAAGGTAAGTCCCTGTTTGAGCCCCGGGCTGCTCATTTGTTA
WI-13424	66 G A C	ACCTATTCTT	TTTTCTCCCC AGGGTCTA	GTCCCTTGCACAAAGCTCCCAACTGGTTTGGAGTTTCCCTTCTGAGGTTTTTACCCCTATTCTC[C/G] [T]AGACCCCTGGGAGAAAAACACATGTGTAAAGTGGCTCAGGACATGAGGCAGGCCGTTTCAACAAGAT GCTGGCTAAGCGGCTTC
WI-14065	29 T C AATT	GGTCAGAGGC	CAAGCTGAATC TGGGATCTC	AACTGCTTTATAAAGGTCAGAGGCAATTT[C/J]GAGATCCAGATTGAGCTGTCTCATAAAAAGAT TCAACTTCAAGTAGCACAATTTCTGTCTGCTTTTAACTCTGAACATTCTTGAAGCACGAA
WI-13446	22 G C TCACTCATCA	GCCATGTTCTT	AAGGGAATCA AAATCAGAAG G	TGCCATGTTCTTCACTCATCA[C/G]CCTCTGATTTGATCCCTTTCTGCTGTAAATTTTTCTTC TTCCCTTTTAGGGCCTAGTCTGTTTGAATAATCTGGTTTTTGAGAGTAGTGAGCCCTTTTACTTTTTT CTGACTGCTTAAT
WI-13725	56 A C TGGGTGCC	TGAGCACATA	CCTGCTGTCTC GGGC	TCACACAAAGGCAATTTGAAATGTCACCTTACACATGGTGAGCACATATGGGTGCC[C/J]GCCCCGAG ACAGCAGGATAAGTTTCAACAACTTGACCAAGCAGGTTAGAAGCAAGGCATGGTTCAGGATG
WI-15702d	107 T C ---	---	---	CAAATGTTTTATGAAGAGACTCCGAACAAAAATAAAGGCTTTCAAAAAAGGGGGTAAAGGGGTGAGG AAAGCATGTGAGAGAAACTGTAAACCCTGTAAACAACTAA[T/C]GGGTTCTTTGAACAAATAGTTT TGA
WI-15702c	101 T C ---	---	---	CAAATGTTTTATGAAGAGACTCCGAACAAAAATAAAGGCTTTCAAAAAAGGGGGTAAAGGGGTGAGG AAAGCATGTGAGAGAAACTGTAAACCCTGTAAACAACTAA[T/C]ACTAATGGGTTCTTTGAACAAATAGTTT TGA
WI-15702b	90 C T ---	---	---	CAAATGTTTTATGAAGAGACTCCGAACAAAAATAAAGGCTTTCAAAAAAGGGGGTAAAGGGGTGAGG AAAGCATGTGAGAGAAACTGTAAAC[C/T]CTGTAAACAATACTAATGGGTTCTTTGAACAAATAGTTT TGA

WI-15702a	48 G C A A A G	A A C A A A A T A A A G G C T T T C A A	C C T C A C C C C T T T A C C C C	C A A A T G T T T T A T G A A G A G A C T C C G A A C A A A A T A A A G G C T T T C A A A A A G [G/C] G G G G T A A A G G G T G A G G A A A G C A T G T G A G A G A A A C T G T A A C C C T G T A A C A A T A C T A A T A G G G T C T T T G A A C A A A T A G T T T T T G A
WI-13831b	113 T C	---	---	T T T T T T T T A T G G A T G C A C T G T T A C A T G T T A T T A T T A G C G A A G G T G A C T T G G A A A A G G A G A T T C A C A T A C T T C C A C T G T A T C C T C C G G G T A A G T T T C C T C T C T C T C T G T A G A T [C/G] T C T C C A T G T T A C A G T C A A C T A T A A A C A T G G C T C A
WI-13831a	56 G C	---	---	T T T T T T T T A T G G A T G C A C T G T T A C A T G T T A T T A T T A G C G A A G G T G A C T T G G A A A A [G/C] G A G A T T C A C A T A C T T C C A C T G T A T C C T C C G G G T A A G T T T C C T C T C T C T G T A G A T G T C C A T G T T A C A G T C A A C T A T A A A C A T G G C T C A
WI-13806	62 G A	---	---	T G A T T G A G C T T A G A A A G G A A G T C A T G T T G A A A T C A G A G A G G C C A A A A C T A G G C C T C A G G T [G/A] C C C A T T A A G C A T G C T G T G A A T G C A A A G G A A A G C T T A A A A A A T T T T T A A G G G T G A C T C C A G T A A A C A T
WI-14372	86 A G	---	---	C A C A T T T C A G C A A A C A A A T C G A G G T G C A A A C A G G G T T A T T T C A C A T T A A T A T A T T A A C T G G A T T T T T T G T C A A A T A A A T A G G G A [G] T T C T T T A A T A A C C A T C T C C T C A C T T C A T G G C C A G T
WI-14373	95 A G	---	---	A G G C T G T T T T T G A G G C C T G A G G C C C C A C A C A T G A C A A C G T A A G A C T G T A A C C A T G T C A T G T G A G T T A T G A G C T A G G A A C C C T G G A C G A A A C C A [G/C] A C A T A T A C A A T C A T C T C C A C C T C C C A A C G C C T T T A C T T T C A C A G C C T C T G C A
WI-14078	61 C T	A A A G A A G T A A A T T A G G A A G A G C A A G A	T G T G T G C A T G T C T C T T A C T G C	A G A A C C G A G A A C T C A A A G A A C C A C A C A T G G T G T A T C A A A G A A G T A A A T A G G A A G A C A A G A [C/T] G C A G T A A G A G A C A T G C A C A C A A A T C G A A A C A A G G G C A T G G A G G A A G G A C T T T A G A T G G T C A C G
WI-14083	47 C T	A G A C T T G A G A G C T T A A A A C A A C A C T	G C C T A C T G G A C C T C T A A A C T A C T G A	T T G C T A C A T A A C A C A T T A C T C C A G A C T T G A G A G C T T A A A C A A C A C A C T [C/T] A T T T T G T T A T T T C A C A G C T C A G T A G T T T A G A G G T C C A G T A G G C T T G G C T G A G T T G T T G C T T A A G G T C T T A C A A G G C C A A
WI-14085	31 A G	A A T A A A A C T T C C T A T T T T C T	C A G T C A T G T T C A C G T G C T A G T T	T G C A T T T A T T T C A T G T G T A A G A A A A A A C [A/G] T A A C T A G C A C G T G A A C A T G A C T G C A T G G A T A C A C G G C T C A G C A C G A G G C T A A A G T C A G A A G T G A G T G A A A A C A A A A T A G C A T G T T G A T T A A G T G A A A T A A C A G A A C A G G A G G C C T T T
WI-12169	121 G C	A A T A A A A C T T C C T A T T T T C T	G G G T T C T G A G G T G A A A G A A A A A	G T C A A A G G T T G G C A A A T T T T A T T T C C A C T T A T C A A G A A C T T A C A A A A T A T T T T G T T C A T T C T A A A T T T T C A C C T T T A T T G C T A A G T T A A A A T A A A A C T C C T A T T T C T T T G C T T [G/C] T T T T T T C T T T C A C C T C A G A A C C C C C T T A
WI-15705	50 A G A T C	G G A G G G A G A T T T T A G A C T G A	A G C T G T A G T C G T C A A A T A C T C T A G A A	T T G T T T T A T T T G G G A G A A T G A A G G A G G A G A T T T A G A C T G A A T C [A/G] T T C T A G A G A T T T G A C G A C T A C A G C T C T C T C T T T G T A C T A C G G A G A C C C T G C T T A T A G C C C C A C A G A A A T C C T C A T C T G G G T T G C C A G A C A G

WI-14379	102 C T	TCTATTAAAC GGGTATTGTCA CACC	ATCATCTGTT TGAGGTGACA	TTTATGCTGTTGTTTCTACTGGTGGTCTCGCTCACTAATATCCAATCCTAGTATGATTTCTTT TACTTGTGCTATTAAACAGGGTTATGTCACACC[C]/T]TGCAACCTCAAACAGATGATACT TAAATAAAAACAAAGCAGAAAA[C]/A]CCACCATTAACAAGAGGACACTGCAGAGGCTTATGTACA ACAGTGTCCCGGAGGCTGGCGAGGACTGCCACTCACTCCAAAATTTCTTTGGAGCAGAG
WI-14102	22 C A	---	---	ACCGCAGAGCTGCTGTATTTAAAA[A/G]ACAAGCGTCTGGATCTCTGCAGGGGCTGGGACCAGCTGC AGTGGGGCTCCGGCAGCTGCTCCTGCTCTCCAGGACTCTTCCACCAACCCC TGAAACTGAAACGTATTTCCCTCCA[A/C]JACACCGTAGAAACTTAAAGGCCGCAAAAGACTCACACCC ACCACCTAGCGCGCAAAAAAGGAAGTTTCAGGTGATACAAGATGTCCTGCCATCACACCTGAAGGAT GGTT
WI-15937	24 A G A	CGCAGAGCTG CTGTATTTAAA	GCAGAGATCCA GACGCTTGT	ATGTTTTATGATCAATTCCAAACATACAGTACAGGGAAGGTGAAATGAGTAAGAAAAAAATCAT ATTTAAGTCCCGTTAACACTAAGCC[A/G]TATTATTTCAAAATGTGTTTCAAAATACTCAGCCAGAT CACCAAGCTCAGTCACTAC
WI-15944	24 A C A	AAACTGAAAC GTATTCCTCC	GGCCTTTAAGT TTCTACGGTG	GACAAAGAGGCAGTTTCTGTAGTTCCAGCAGGGCCAGAGCAGTTATCAGAACGGTGGTTGACCT GCATAGATTTTTTGACGACTA/C]/T]GTGGCCATGCCATTCTGTAGTGAAATTAATGAACA GTTATTTTCTCACAGTCTGGAGGTAGAACTCTGAGATGAGGATATCACCAGCATGGTTAGTTCT GGTGAGGACTCTCTGGCTTACAGCTGGCTGCTTCTCACCATGTCTTCACAT[G/A]GCCCAAGAGAC AGAACAGCTCTCTGGT
WI-14124	92 A G	---	---	TTGTTGTTGGCACCAGAAAAAGCT[C]/TATGTTCTATGTTATGTCACGTACATACTGTAAACAAGACT GCATTAATATGTTTTCTTATGATTTGTTCAATG
WI-14125	88 C T	GGTTGACCTG CATAGATTTT	GGATGGCATG GCCAC	GGCAGGTTTATTCATAATTTTCAAACCTTGGAAACCAACCAAGATGTCCTTCAGTAGTAGTATATCA GACAATC[G/A]AATATTACTTAGCACTAAAAAGAAATGAGCTATCAAGTCAATGAAAAAGACATGCAGG AACCTTAAATGGATATTACT
WI-14136	120 G A	ATGCTTCACA	TCITGGGC	TTTTTAAAGAGTGCTTCACATCATTTATATTGTATTGCACACAACTTTTTTAACTC[C]/T]GTCAA AAACAACAAGAACAGATGAATAAGGAAGCCAGTGTCTTTGAGATAGAAGCCTCTTTCAGAATCA CCTCCC
WI-14138	23 C T	TGTTGGACCA GAAAAGCT	GTGACATAACA TAGAACA	TTGTTGTTGGCACCAGAAAAAGCT[C]/TATGTTCTATGTTATGTCACGTACATACTGTAAACAAGACT GCATTAATATGTTTTCTTATGATTTGTTCAATG
WI-13551	74 G A	GACAATC	TAATATT	GGCAGGTTTATTCATAATTTTCAAACCTTGGAAACCAACCAAGATGTCCTTCAGTAGTAGTATATCA GACAATC[G/A]AATATTACTTAGCACTAAAAAGAAATGAGCTATCAAGTCAATGAAAAAGACATGCAGG AACCTTAAATGGATATTACT
WI-15953b	59 C T	---	---	TTTTTAAAGAGTGCTTCACATCATTTATATTGTATTGCACACAACTTTTTTAACTC[C]/T]GTCAA AAACAACAAGAACAGATGAATAAGGAAGCCAGTGTCTTTGAGATAGAAGCCTCTTTCAGAATCA CCTCCC
WI-15953a	26 T G A T	TTTTAAGAGTG TCCTTCACATC	TCATCTGTTCT TGTTGTTTTG A	TTTTTAAAGAGTGCTTCACATCAT[T]/G]TATTTGATTGCACACAACTTTTTTAACTCCGTCAA AAACAACAAGAACAGATGAATAAGGAAGCCAGTGTCTTTTGGATAGAAGCCTCTTTCAGAATCA CCTCCC

WI-14631	82 G A ---			---	TGAATCAATGGACAGTTTTGCCTCTGTTTTAGTGAACCCCTCACAAGCACTCTGCATAGTCCGCTTT CTGTCTCTTTAAAC[G/A]TGCCCTGGTTCCCTCTGCCAAACTTTTAGGATTGGGCCTCCTCAGGGCCTT GTCTCTGA
WI-6053	24 A G ---			---	ATCACCAACCGTGTCTAAGAACAAC[A/G]TCTTCATGTCCAACTCATATCCCCGGGACTTTGTCAACTG CAGTACACTTCTCGCATTGAACCTGGCTTCTGGAGGGAAGCCTCCTAGAGCCAGGTAAGGGGGTGC AGCAGTGAGGGGTATATCTGGCTGGCCAGTTGGAACCCACGGAG
WI-15964	99 T A CTGGAGGTA	GCTCTCTGTCC		GACTTCTCCAC CCTCTTGC	CAGAAACCTCTTCTGTGTATTAAAGTGTATAGTCAAGTCAGAGCAGTCCAAAGGAGGAGGCTGCCTT GGGAGGTAGTAAGCTCTCTGTCTCCCTGGAGGTA[T/A]GCAAGAGGGTGGAGAAGCTTGGCAAG
WI-12075	103 G A GGCAC	AGCAGCTGGG		CCCCCTCTTTC TCTTCTTTC	CAGCTAAAGGATCACTGCAGCTAAATACAGATAGAGAAGCAACAAGCCAGGCAAAATACCCATCAG AGACAGTGACAAGAGCAGCTGGGGCACGGGGAGGC[G/A]GAAGGAAGAGAAAGAGGGGAGGAG CCT
WI-12179	96 G A TGGAGGTCA	GGAGGTACGG		TGGAATGACCC TGTAGATGC	TAATTTAAACACACGCCCTTCCACATAGTGGCTGAGGCGATCTGCACATTTTCTAGAAGGACATGA ATAGTGATGTGGAGGTACGGTGGAGGTCA[G/A]GCATCTACAGGGTCATTCGAGGAGGAACAG
WI-14651	49 C G ATTGT	CAAGAATCAT TCTCATTTAAA		GGAGATATTGA TCTTTTCTGA CTTATTT	CACAAATAGTGAAATTTATCTGAGCAAGAATCATTTCTCATTTAAAATTG[C/G]AAATAAGTCAGAA AAAGATCAATATCTCCCTGCTTCAAAAATGACACTCCCAATTTTACAGGTAACCACTGTTA
WI-14666	105 T A ---			---	AATGTGGACTTTCAACAAGGGTTTAAACATAATCTAATAACAACCTCTACAACACATTCAGAGCAT TATAACAAGAAATTTTACAGGCAGCTAATGTATTTAAA[T/A]AACCCATGAAAAGAAAAAACTTG
WI-13473	31 C T ---			---	ATCTAGATGTCAGCAAAATGGGCTGAGACTG[C/G]TGTCTGTGTAGATGCAGTGTGTGTATGTTCTAC TCTATTACAAAATTAACAGAAATATGGCTTCGCTTTGTGCAAAATGTTTATATCACAGTC
WI-13967	103 A C AAATAAAAA	AAAAGACTAC AGATACAAGG		TTGTGTTTTCA TCTCCTAAAAG TG	AATTTAATAGCAGCTCTGTGTGTGATTTTAAAGAACAAAGATAAAATATGTCAATTCAGCAGTCATTT AAAAATAAAAGACTACAGATACAAGGAAATAAAAA[A/C]CACITTTAGGAGATGAAAACACAAA
WI-14408	60 T A G	GCAGACACAC TATTACAGGCT		TTAATTGTGA AAACTCATTTG TTACTTT	TTAATATTTCAGCAAAAGTTATTGCAACAGGTTGAAATGCAGACACACTATTACAGGCTG[T/A]AAA GTAACAAATGAGTTTTACACAATTAATAATTAACACATACTATTGGGATTTGTTGAATGA
WI-13683	47 C G ---			---	TTTTGTGTTAAGAACAGCATTTTGAAAAATAAACCTATCTGCCCATG[C/G]TTTACAGCCTTTTAAAT TTGTAATATTATATAGTCGTTTATGGTACATATTGATTGTC
WI-13910b	63 C T CGTCT	CACCATGGCA		CATTGAGATAA AGCACACTTAT CAC	TTAGAAAACTGATAAAAGCAACAACACTTTTGGGGAAGCACCATGGCAGCTCCTTTGTGCTA[C/T] GTGATAAGTGTGCTTTATCTCAATGAAGCAACCCCA
WI-14635	22 G A ---			---	ACATGGCAGATACAGAGCTG[C/G]ATCTTGAAGACCACCACCTGACCAGGAAATGCCACTTTTACAA AATCATCCGCCCTTTTCATGATTGGAACAGTTTTCTGACCGTCTGGAGCGTTGAAGGGTGACCAGC ACATTTGCACATGCAAAA

WI-16002	59 T C	GATAACATAA AATGATCATG AGAATTTC	GCCATCTCCTC TTTGACTTTT	CCAACATTTTAAACCTATGACTGGTCAATTGATAACATAAAATGATCATGAGAAATTTCA[T/C]GTTA AAAGTCAAAGAGGAGATGGCTAATGCATGCTGGCT
WI-15361b	101 A G A	CCCACITGAAC TCAAGTCATC	AAACTAAAC CITTTGTCCTA AAA	GTGGAATTTTATTAAAGCCATCAAAATTTCTTCACACTCAATACTGTTGAACAACAAGATAACACAT CTTCTTGCTCATCCCACTTGAAGTCAAGTCATCA[G/T]TTTAGGCACAAAGGTTTAGTTTTCTCGG GAAATCAAGTTTTAAACCA
WI-14759	73 T C	GCGTTTGACTT GTGGGG	TCCACACTGC CCCC	TGAGTTACAACAAATGAGCAACAAGTTAGAAAAATTTGTTTTATTCAAACCTCCTAGCGTTTGACTT GTGCGG[T/C]GTACTCAATGGGGGCGAGTGTGGACGGGAGGATTGCAACCCAGAGTTTCATACTG CAA
WI-12535	50 A T TAT	CTAGGAGGGTT GAGGTGTAGA	GCTCCACGAGA AGAGAGGAA	TCCTAACATTTATTTTCAGGTGGTGACTAGGAGGGTTGAGGTGTAGATAT[T/C]TTCTCTCTCTC GTGGAGCCTTACTGAAGACAGGATGCCGTTCTTGTTTATCAGCTGAGAAAGGCGAGTCTCGCCATC TTAAAGACCTGCOCTCC
WI-13805a	112 G A	AAAGGCACAC GGGAA	CTCAGCCTGCC TTGACC	TTCCATTCAATATGCTTGGCTTTACCAATTTTTATAGCTATTGGGAGGCAGGAAAGGAAATTTGGC CCCAGAAACCATGAGATTTGGTGCAGAAAAAGGCACACGGGAA[G/A]GGGTCAAGGCAGGCTGAG AGTCACATTTCCAGACCTC
WI-12340	18 T C ---		---	ACACAATATAATTCATT[T/C]CGAGTGATTAAACCTATTTGTTTGTAGAACCAACAAACTAC AAGAAAAACATTTTCAAAACCTTTTTTTCAGGCTGA
WI-14808	52 T A	ACCCACCACA CTACCCTGT	GAGGCATCACA ATGTTAAGATT TT	CTTTGAAACACCTTAAAGCAACAGTTAAAAAGTACCCACCACACTACCCTGT[T/A]AAAACTTTAAC ATTGTGATGCCCTCGCATCAATTTTAGAAAAACAAAGAAAAACAACTGAAGGCCCATGTA
WI-14816	29 A T ---		---	AGTTAAAAAAATCGAGTCAGCATTTATTTATTTAAAACTGGACACGCTTCTATATTGCAAGCTCAT TCAATGCAATTTATTTTGTATCCCAAGCCCTGAAACATGAAAAAATATTTACTAAAGGAATGTTG ATTACCAGCTACGACTTTC
WI-12542c	71 GT ---		---	CCGTGTTTCATTGAAGGCTATTAGGCAAACTGAACATTTAAATGTATCCATGTGAGGGCTCTAGATC AT[G/T]TAGTGATTGATACAAATACGATCCATAA
WI-12542b	70 GT ---		---	CCGTGTTTCATTGAAGGCTATTAGGCAAACTGAACATTTAAATGTATCCATGTGAGGGCTCTAGATC AT[G/T]TAGTGATTGATACAAATACGATCCATAA
WI-12542a	45 C T	GCTATTAGGC AAACTGAACA TTTAAA	TCTAGAGCCCT CACATGGAT	CCGTGTTTCATTGAAGGCTATTAGGCAAACTGAACATTTAAATGTATCCATGTGAGGGCTCTAG ATCATGGTAGTGATTGATACAAATACGATCCATAA
WI-12173	57 C T	GGATACAGCA GTAAGAATA CAAAA	CCACCTCTAGA ATGTATGCTCT ATAA	CACCTAAATCATTTAGAAAACTGGGGATACAGCAGTAAAGAAATACAAAAATCCTGC[C/T]CTTATA GAGCATACATTTAGAGGTGGGAAAGAGGCAATAAATA

WI-14836	28 T C ---		---	TC TTGGAGGGATAGAGGACAGAGTGTT[C]GTTGATTTTCGGTTTCAGTTGGTTGTCATT GGTTTTGTTTTTGCTAATTTTGGCCCAACCCTATAAAAAGCAGTGCCACCCAGAGGCAG
WI-14856	60 A T AA	TGGTGACACG GAAAATACTT	TTTGTTTGCTA CTTTTTACAAA CTTT	ACATTTCTTATGATAGCAACAATAATATGATGGATGGTGACACGGAAAAATACTTAAT[AT]TAA AGTTTGTAAGAGTAGCAACAAAATTTGAGTATATACTATAAGTGATAGAGGATGTATATGAAAAA GGCTATAAAAAGCTCCAAA
WI-14863	61 G A ---		---	ATGGCAATTTACTTTTATAGCAATGAACAAATATTTGTCAAGGGGCAAAATATTTTGTCTG[G/A]AG TTAATAAAGTTAATAATCTTTTACCACAAAGCTAGAGGTCAACAGTACCACACTATTATTGATTGCCACT ACCTGGC
WI-14867	46 T C A	GACATTCCAA GGCTCTCTAAC	TGGGGCTGCAG ACACTC	TTTTAATTAACGTAAAAAGGACAGGACATTCCAAGGCTCTCTAACAT[C]GAGTGTCTGCAGCCCCA TTCGCTTTGAGATGTGAATGTGTTAACCCAGGGTGGA
WI-14733	98 G A A	CCAAATTGAC AGATATTCTGC	GATGAGGTCAG GCCATTTATT	ACGGAGTCGTCTCTGATGTATTCTTGTCAAAAATGTTGCCTGATTCTAATCATGAAGAACAATT AGAAAAAATCCAAATTGACAGATATTCTGCA[G/A]AATAAATGGCCTGACCTCATCAAAAAACATCA ATGTCATGAAAAACACAAAA
WI-14898b	79 A C ---		---	TTTTGTACCTATTCCTGTTTCAGTGCATGTACAGGAAGAGTTGTCATAAGGTGCCACTAAGGAAA ACTTCTCCAT[C]AAGCTGCCTGCTGTGCACGTTGCCTGGCTTTGCTAACCCCTGGTGTGCTCATCT GCCTGTGTTCTGCTT
WI-14898a	50 A C CA	CATGTACAGG AAGAGTTGCT	AAGTTTCCCT AGTGGCACCT	TTTTGTACCTATTCCTGTTTCAGTGCATGTACAGGAAGAGTTGTCAT[C]AAGGTGCCACTAAGG AAAACTTCTCCATAAGCTGCCTGCTGTGCACGTTGCCTGGCTTTGCTAACCCCTGGTGTGCTCATC TGCTGTGTTCTGCTT
WI-14907	48 G A GGACTCTGAC	GGCACACATT GGACTCTGAC	TCTGCTGCAAG GGGAAT	TGGTATTATTTCCGACATTACTGTAGAGGCACACATTGGACTCTGAC[G/A]ATCCCTTGCAGCAG ACATTTGTGAAGCTGCTGGTGGGCACACCCATCAATCAGTACTCTGCTGACAGAGGGGCCACATG CACGATGCTCACGTGTG
WI-14911	52 G A C	CCAATACATT CAGTCTCTGTT	CAAAACCAGGA AAAGGACCTT	CTAGAATCTGGGAAGTCCAAAGCTCAGTGCACCAATACATTAGTTCCCTGGT[C]G/AAGGTCCCTTTTC CTGGTTTGCAGACAGATACCTTGTCTGTATCTCATATGGCAGAGAAAGAGAGGAATATCT
WI-14913	88 C A ---		---	CTGATGCTTTGACATCTGGGGCATTGCTGTCTCTAGAGAGACTACTTCTCTGGACCAGCCAAITTC TAGTGATAGTAGGAGCTCA[C/A]CCTGCAAGTGCACCTTTTCATATACAGATCAACCAATCCAAAAAC CTACACCTCCAAACCCT
WI-14914	66 G C A	CTGGACACAG TTTTCTCTAGC	CAAGCCCAGGA CAATAAATTC	ATTTCCTTGATTGGCTGCTGTAAGCCTGTGAAGTCATGCACATCTGGACACAGTTTCTCTAGCA[G/ C]GAATTTATTGCTCTGGCTTGATGGCTTTCACAGC
WI-14926	49 T C ---		---	GTTTATTTTCAAAATGACACATCCCAGATTGAAATGGGCACCTTAGCGAAT[C]ACTTGTGGACCACA AGACTTGTCTGAGAACATGTTTCAAGACAGTTTTCAAATAAAAAATTTTCTTAATCAGGTCCA

WI-16083	89 C T	ATGTTTAAACA CAAACATATC AAGGAT	TGAAAAAGATT CCAGCC	GCATCTTTATTACACAGAAACTCATTTATGTCCTTAATCAATTTGTTAATATAATATAAGCATGTT TAACACAAACATATCAAGGAT[C/T]GGGCTGGAATCTTTTCCATTCTATAGAAAAAGCACTAACCATC CATTAAGCAG
WI-14930	55 C T	GGAGGAGTCC CTCATGGAT	CACAACCAACC AATACCGC	CAGTTCTGTGTTCTGGAACAGCTCTCCTTTTCCACAGGAGGAGTCCCTCATGGAT[C/T]GCGGTATTG GTTGGTTGGTGATTGGGGAGCACGAGGGAGAGCAA
WI-14946	47 T C	---	---	TCAATCTGAAGGTGTCAAAGTGGTCTATTTGCCCCAGACATAACA[T/C]CTCTAAATCATCCTCTA GATCAGGGAGTCATAAGGACCAATTAAGGCTCATTACACACAGTACTTTTATGGAAGGATT
WI-15987b	80 A G	---	---	ACATTAACACAGCACAAATTAAAGGGTCCCAACGAGTTGGTAGTGCCTTCCACTATGTGAGGACAC TAAGAAGATGGT[C/A/G]TCTATGAACCAAGCTGCGGGTGCCATGCTCTTAAACCTCTCAGC
WI-15987a	32 C T	CACAATTAAA GGGTCCAA	GGAAGGCACTA CCAACCTC	ACATTAACACAGCACAAATTAAAGGGTCCCAAC[C/T]GAGGTTGGTAGTGCCTTCCACTATGTGAGGA CACTAAGAAGATGGTCACTATGAACCAAGCTGCCGTGCCATGCTCTTAAACCTCTCAGC
WI-14948	56 T C	AGGAAACTG CTAACTTGTC	GATGATCTTAC ATCAGTTGTG	GAATAAAGTCTTATTGCCGTTCTTCCAGGGAACAGGGAAGTCTAACTTGTGAGT[C/T]CCAAACA ACTGATGTAAGATCATCTTCTGACCATAGCGAACTGTAAAGGCTTGCTGTCCCTCCAGCTGA
WI-16100	52 A G	CAAAAAGCTA TTTCTCTACAG	ACAGGAATGTC AGAAAACAGT	TTGTGTTAAATTCATCAAGAAATTGACAAAAAGCTATTTTCTACACTTGAC[A/G]GTAATATACTG TTTTCTGACATTCCTGTTATCAACTCCTCTGAAAATC
WI-14958	83 A G	AATAATTTAT CTCTTCTTTT	AATGCATTCTAT TTGGTTTTT	GTGATTGATCTGTAATTTATGGGATTATTTATCAACTCTAAAATCCAAAGATGAAAATAATTTATCT CTTCTTTTCAAGG[A/G]AAAAAACCCAAATGAATGCAATTTTCCAGTTTCCAGGCCCTTTGAACTGC AGCAGAAAATTCAGGA
WI-14976	35 C T	GTTGATTTGCT TCGTTCAAAG	TCAAACATAAT CTTCCATTCTA	TATTTTTTAATGGTTGATTGTTGCTGTTCAAAG[C/T]GCTTAGAATGGAAGATTTAGTTTGAGGAG GGGCAGGTTGGGGTAGGCTCAGCGGGCATAGTGGCCACAAGAAGATGCCCATCTCACACCTGGAG ACGTCCATGAGCACCTCG
WI-14981	31 G T	TCAGTGGTGT TATTGGATTT	CACCTCTGACA TAATACTTAGC	TAATTGATTCAGTGGTGTATTGGATTTT[G/T]TTTATGCTAAGTATTATGTCAGAGGTGGAGAAT AAAGAGGAAAAAGAAACAAGTGTGGCTCTCGCATCAACGACCTGATCTTGTACAGGAAGTTTGA GAGCTCACAAA
WI-14992	80 C T	TGCATTAAT GAAGCTGCAG	GCTATGTGCTC AGCTTTCCT	TGATTACATTTTTTAAATATCATGCCTACCAGCCCATCTAAGCCAAATTTAAACACCACCTCTGCATTA AATGAAGCTGCAG[C/T]AGGAAAGCTGAGCACATAGCACCCCACTGATCGGAAAGAAACGTA
WI-15002	72 T A	---	---	AAATCTCTCTTTCACACACAGATGAACCTTTAATAAATTACAAATGCACCTGAAAATGCCTTCTTGA TTTCTT[A/T]TCAGTTTAGGCTCAAATGGGCTCTCCTCAAGGCTGGACCTCAAGGCCAGTT
WI-15000	90 G A	GACAGAAAAA GACTCAGACT	GTTTCTAGTTC TGCACAAACTT	TCAAGCCAAATATCTGCAACAATAACATGTATTGAAAGGTATAGAAATAAACAGATGGATAGACAG AAAAAGACTCAGACTGTCTAAGTA[G/A]TGAAGTTTGTGCAGAACTAGAAAAACAAAATCCACCT

WI-12323	68	G A	CACAATACCT CATGTACCTAT	CACTGGACATA TTCCCTACCTG	ATTTTGTGATGTTGGTTAAATCTTATCTCTTTTATACACAATACCTTTCATGTACCTATGAAATAA G/AJACAGGTAGGAATATGTCCAGTGCAGAACAGAGGACTCACACCTGTGCATAGACAGCAC
WI-14683	91	A T	AAGGGACGAT TTAGTATCTAA	GGCATGTCCCA GTGTTTT	CATAAGTTGCATTTATTCACGTCACGCCCATCTAAAGCTACTGTGTACAGTAATCAGGACTGGAGAA GGGACGATTTAGTATCTAAAAACA/AJTCAAAAAACAACACTGGGACATGCCCTGAAATTGCAAGT TGGAGTTCGTAAGAATCTAC
WI-13470	100	C A T	CCTGCCCTTAT ATTGGAATTC	GGGAGACCATG GGTCTCT	ATTTGTGTTTATTTAGCACCTGAATTTAGGCAAGAGAAACATTTCTACCTGAAGACTCCATGCAGT CAAAATTCCTGCCCTTATATTGGAATTTCTA/C/AJAGAGACCCATGGTCTCCCCAAGTGAGGAAGCC AGGCACTCAGCCCTTC
WI-14712	38	T A CA	TGAATGCTTC AAGTACAAAT	TGAAAGTATGT TGTATATGGTA	TTTGGTGCTACTTTTGTGAATGCTTCCAGTACAAATCA/T/AJCTCACAATACCATATACAACATACT TTCAATCACAACTCAAAATATAAAATAAACCTACAAAATCACATTGC
WI-13712	40	A C	TTTACTTTGT GTCAATTTTAT	CCATAAGGTCT CACACTTTTCT	TGGGATACCCCTTTACTTTTGTGCTATTTTATTTCTATTG/AJATTATAAGAAAAAGTGTGAGACCTT ATGGCTCTGCTTATTGGCAATATGCAATATAATATTGTGTGTTTAAATTTATGCAT
WI-16163	35	C T A	TCTGTGATGC AATTGAAATA	GCTGCCAATTA CAATTAACCTAC	TCTAAGATTTTACTCTGTGATGCAATTGAAATAA/C/TATTGTAAGTTAATGTAATTGGCAGCAT GCCCAAAGTTTAAAGGAGACTATTTCTTTAAACAAGACAGTGTCTGACATTTATTTTCAGGT
WI-13453	88	T A TC	AATGCACAAA ATCTGTCTCT	TCAGATTTTAA CATCTCTTCT	TTTTTTTATTGCAATTTGAGTGTCTTATTATATTGGGAATTCGAGIGATATTAAACATTTGTACAAAT GCACAAAATCTGTCTCTCTC/T/AJTGCTAGAAAGAGATGTAAAAATCTGACCTAGTTGAACAGTCTT AATGAACCTCATTGTCCAT
WI-16167	58	T C	CGCACTCTAA ATTAGAGATA	TGCTCGTGGTG AATAAGATG	CGGATATAATTATGTACCGCACTCTAAATTAGAGATAGATTTTCTGATATACATTT/T/CJCATCTT ATTCACCACGAGCACACCCACACGACAGTAGAACAGTTCCACACCTGATAAAATTGCACAAGATG
WI-14482	17	G A ---		---	GCAGAACCAATTAAATAA/G/AJATCTGCAAGTTTCCCAAGAAACTCTGGAACCATAGTGCCTAAT GCCCTTTAAATCGATACTAAAGGAGAGAGAAATAAAGGACTGCTTGATGTGACAGTCACTGGT
WI-15069	81	T C ---		---	TGTAGTCTTCAAAAGACATGTTGGCAGATAGCCAGGCCATCTATGTGTATTTCCAGTATCATGTAC GCACTAAAAAAA/T/CJGTGTGCTGTGCTGTGAGTGAACCATTTGCTTAAGATAAA
WI-16156	97	A C	TGAAGATTAA CCCAGAGTCGC	AATTGTGTGCA TTTTGAAGAGA	ATCTGGTATTGTGTATCCCAACAAGTATACAGAATACTCTATAAAACCAACCCCAACCTTCAATA TTACACTAATGAAGATTAAACCCAGAGTCGC/AJCTCTCTTCAAAATGCACACAATTAAGACG
WI-15012	59	G T ATGT	GCAGCAAGAT TACATCAGTA	CTCCAAATAGC CTAGAGTATAG	CATGGCAGCAAGATTACATCAGTAATGTAATAATAATACAGCTTTTTCATTGAAGCTTTT/G/TJACCT TACTATCTAGGCTATTGGAGTGTCCCCAC



WI-15100	74 G A ---			---	TCTTATTCACAGCCAGAAAAATACCCAAATTATTTCCAAATAAGCAAAAAATTGGAACAGACTGGA GTGAGAAC[G/A]GGTTCACACCACCAAGCCCTCAAGACAAGATGGACACGGCAGCTGGTTCTGGGGT GCATTTCTAGTGGACTTAT
WI-14492	92 A T AATTACT	CCTTTATTTTC CCAAATATAA		GTCACCATGTT ATATTTTCTTT TAAGAC	TGGTACAGAAATGTTTAATTACAGCAGGGCAGTGATCCAGTTAAATAAAATTAACATGGTGACAGCTTT CCCAATATAAAATTAATAA[A/T]GTCTTAAAGAAAATATAACATGGTGACAGCTTT
WI-12002c	89 T C ---			---	TCTTTAATTTATCGGAATCCAGGACACAAGAAAAACACCCAAAAACCCACATGGAGACAGAAG ACGAGACACAACCTCTCCCCAC[T/C]GCCCTCCCTGCTCTAGAGTGGGACAAAAGTGGGGGTGAGAC AG
WI-12002b	68 G A ---			---	TCTTTAATTTATCGGAATCCAGGACACAAGAAAAACACCCAAAAACCCACATGGAGACAGAAG AC[G/A]GAGACACAACCTCTCCCCACCTGCCCTCCCTGCTCTAGAGTGGGACAAAAGTGGGGGTGAGAC AG
WI-12002a	30 C G GGACACAA	TCGGAATCCA GGACACAA		TGGTTTTGGG TGTTTTCTT	TCTTTAATTTATCGGAATCCAGGACACA[A/C]GAGAAAAACACCCAAAAACCCACATGGAGACAG AAGACGAGACACAACCTCTCCCCACCTGCCCTCCCTGCTCTAGAGTGGGACAAAAGTGGGGGTGAGAC AG
WI-15116	96 C T GTTGCAAGTAA	GGGAGCCCTA GTTGCAAGTAA		CCTGAATATGC AATTATTTATT ATGACA	TTTTCATTTATTTCCAGAAAAAGAAATACATTTTTCAGTAACAACCTTACATATAGAAATTAACACTTTG TTCTGGAATGGGAGCCCTAGTTGCAGTAA[C/T]GTGTGATATAATAAATAATTGCATATTCAGGATTTTG TGAATAGGTGATTGGGA
WI-12578	37 C T AATGGGAA	GGCTAAAGG AATGGGAA		TCAAGCGACCA CCAACAC	GCAAAAGCAAGCTATGGAGGCCTAAAGGAATGGAA[C/T]GTGTGGTGGTGCCTGATACACTTGGT GCTTGTGTGCATGGAGCAGAAAGTCTTCCCTGTCCATGCAGGGGCTCACATATTTAACTGCACTAAT TTGGCAAACTGTCTATC
WI-15153	40 A G GCATTGCA	CCCTTATGTTG GCATTGCA		AACCTCAGATA AGTGCAGTGC T	ATTTACAGTTGGCCAAGATCTCCCTTATGTTGGCATTGCA[A/G]AGACACTGCACCTTATCTGAGGTTA GAAAAATGTAGTCTTAATAGCCCTCTTAATGTGTAGCAAGGCAAAATTACCATTTTCTAA
WI-15215	84 G C TCAATGGG	TGGCTTTAGAA TCAATGGG		CCAACAGGGGA AAAAGTCA	CCTTTGTCTCTGAACCTGGGACCAAGGATGTGAATAATTTTGAATCTGATGCAGGTCGAGGTATGGC TTTAGAATCAAATGGG[G/C]TGACTTTTTTCCCTGTGTGGTGGAAACTCTGTGAGGGTTTGGCA
WI-15225	80 C T C	CTTGAGGACCT AGAAAGCAAA		TTTGATTGGCA TAATCACTCC	AGGAAAGAGTGGTAAAGCAAAAGCGCATATTGGATGGAATGATTATGTGTACAGCAGCACTTGAGGAC CTAGAAAGCAAAAC[C/T]GGAGTGATTATGCCAATCAAATTTGCAAGGTTGGAGATATGCTAAAA
WI-15152	51 G A ---			---	AATTTGCTAGTGCAAAATGGACCCAGAAATTTGGAAGGCTATGTAACTACACA[G/A]TATGCACACCAC AGCCATGTCAGTGTACAGATCCTCTGTGCACTTTCAGCTTTCTTAAAAACACATCAAAAGGCTGCA
WI-15123	55 C T TAGGATG	TGTTAGTGACA GACAGATAAA		TTGCTTAAGGG CAACAGAC	TGACTGTATACCAAAATGCTGTGCTTAATGTAGTGACAGACAGATAAATAGGATG[C/T]GTCTGTTT GCCCTTAAGCAATTTACAACCTACTGGGGAAGAAACAGACATGCAAAACAGAGATAAAACACAAT

WI-15182	49 C A	GCACAACCAG	GCATGGGTAA TCCAGCA	GAGACTGCCCTGTGACACAACCTAGCTAGCTGCACAACCCAGGGCAAAATAC/AJTGCTGGATTAAACCC ATGCTAATGGGTTACCTTATTTAGTAATCATGGGTCCCTCATAAAGCATGGTCCAGATCCG
WI-15198	38 T C	GGGOCCTGGC ACTATG	ACTTATCCGTC AGGCAGAGTAG	GTGGACCTCTACAAGTACCATGGGCCCTTGGCACTATGTC/CJCTACTCTGCCTGACGGATAAGTTGGC ATATGGTTCAGATTGCTTGTCTACACAGTCCAGTTTCCCTAGAGACTAGTCCGACTCTCTT
WI-12601	42 T C	CATTTATTGAG TATTCITGCTT TGAT	GTTGIAGICTT ACATGCTTACG TAGAC	TCAAGTGGTAAATAGCCATTATTGAGTATTCCTGCTTTGATTC/CJGCTACGTAAAGCATGTAAGACT ACAACATTACGACCCCATCTCTTCAAGAGGAAGTCTGGTATTATGGAACAAACATTTTGTCAITTCAGAT T
WI-14510	104 A T	TGGCAAAATA TGCATAACAA T AA	TTGAAAATGGT TAAACTGGCA	ATGTTGAGAGTAAATATGCCCTACATATTTAGTGTAAAGTACACCCCAAGATATTTTGGGAGAAGAG TTGTTTGTCTTTTGTGGCAAAATATGCATAACAAAATTA/TJTGCCAGTTTAAACATTTTCAAGAGT
WI-15239	57 T C	CATTGCAAT AAACACCATC A	GGACCTTATCT GTGGACTCAGG	CAGTGTGATGACATTTCAATGGGAAAAGATTGTGCATTTGCAATAAACACCATCATTC/CJCTGAG TCCACAGATAAGTCCCGGAGAGGGGCTTCCCTCCTTTCTCGCTGGTTGACGTTCCCGAGCGAGT GAAGCCCTTTCTGGAATG
WI-12634	52 T C	GCATCATATG AACTGTCTAGC AGT	GGACAAATTGT AAACATAGCT AATAGC	ATGAGTTTAAACTGGAGACAGCGCATCATATGAACGTCTAGCAGTATTATTC/CJGCTATTAGCTA TGTTTACAAATTTGTCTGAAGGGGTCTAGATGTGTACACCCCAAGAAAGTGGTATCTCTGA
WI-15249	34 T C	GGGCTTGACAC AAGATTCTAA A A	GGAAGGCCAG AGATTTTAAAC AA	TTTGCCTGAAGGGCTTGACACAAAGTTCTAATTC/CJTTGTTAAATCTCTGGCTTTCTGGCTGG TGAGGAGGCACAGGCTGGGGTCTTCAGGTATCCACTGGTGCCTCCGATCTGTTCCCTCCACTCCCCAG CCCACATCTTGGCTCT
WI-12159	28 C T	AAGACACCGT GCAATGTC	COCTCTCTCA GTGCACCTT	CTGTCCGGGAAGACACCGTGCAATGC/CJTAAGTGCACCTGAGGAGAGGGGCTGTGTGACTC CCAAACCTCGAATATTTATGAATCTAAGAGTCCAGACGCAGTTCATCCAGGAGATCTGC
WI-12648	41 A G	CCTAGTGGCAT TAAGGATGC	TTGCTACTAAA AGTGGACATCC T	TCCCCAGATTGTATGGAATGCCTAGTGGCATTAAAGGATGC/JGJTAGGATGTCCACTTTTAGTAGC AACCGATGTTAATTCACCTACTCCATGTTAGGTGCTTTACTTGGATTATCTCACTTAAACCCACA
WI-12684	64 G T	CATGCTGTAA ACAGCTGTGC	GGAACAACAA AGCCTAAATGG	ATGAGAGGTAAGTGTCAACAGTAGGCTTAAATATTTCAGTAAACCATGCTGTAAACAGCTGTGC/JG/ TJCCATTTAGGCTTTGTTGTTCCATTTAGAGAGCACAGGAGGAAATTTAGCATAATTCCT
WI-15260	75 G A	AAAGGATGAA GCTAATCATG GA	TCCTCCAGGG AGCTTGC	TTTATAAGCTGAATGAAAGAGGTGACACAGCGGACACTGTCTATAAGTGGAAACAAGGATGAAGCT AATCATGGA/JG/JGCAAGCTCCCTGGAGAGACAGGGACAAAATCAAGAATGAGCTGGAGAAATTA TCCTG
WI-15325	39 T C	CATGTGGCTGG GAGGC	CCTTCCACCAT GATTGTGA	AAGGTTTAAATGGACTACAGTCCATGTGGCTGGGAGGCT/CJTCACAATCATGGTGAAGGCCAAAA GGCACATCTTACATGGTGGCAGTCAAGAGAGAATGAGAGC
WI-13936	123 C T	AGTTGGCATT AATAGCCTAT	TGAAACTCCCA CATGGAGTT	TATTTAGTATTTCCATCCATGGCGCTTCTCACTCCCTATACATCTCCAGGGTTGAGGTAGTCTACCC CCATAGGTTTCAGAACCTATGACCTGTATCTTCAGTTGGCATTCATAGCCTATC/CJTTAACTCCATGT GGGAGTTTCATAATAA

WI-14528	62 T G	TTTTAACTTTT TCTGGATGGTA	CTCGATTAGCA CTTATTATAAA AATTAAAA	TATGCTTTATTGAAGAGAAATAGGCTATTATAATATTTAACTTTTCTGGATGGTATAAATTT/GJTT GAATTATAAAATTTTAAATTTTATAAAGTGCTAATCGAGACATCACTGGGTATAAATTGA
WI-15347	74 C T	GACTTCAAAG GAAAAGAACA	TCACTCCCCCA AGTCTTGG	TATTTCTTCGGTTTCGGATGCAAAACAAAAATTTTAAAAGAAAATGTGACTTCAAAGGAAAAAGA ACAAATTTT/CJCAAAGACTTGGGGAGTGAAGGCAGAGCCTGGTGCAGATGGACGAGGTCTGCAGA CG
WI-14546	95 C A	CCAATTTCTAG TGATAGTAGA GGACTCA	AAGGTGCACGT GCAGG	GTATTTCTGATGCTTTGACATCTGGGGCATTTGCTGTCTAGAGAGACTACTTCTCTGGGACCAGC CAATTTCTAGTAGTAGAGGACTCA/CJCTGCACGTGCACCATTTTCATATACAGATCA
WI-15353	37 G A	---	---	TTTATTGGCTGCTCTGTAATACAATGTGGTGAAC[C/G]JCTCTTAATTCAGGACATCTTCCACCTTG TTTGGCTTCCAGTTGTAAGTCAAGACCAGTGCAGGCACATAGGCTGATTAATCAGTGG
WI-14580	100 G A	CATTCCATCT GTCTTGCA	CCGACCAAGAT CCCTCC	AGAAATTTTCTCTTTTAAAGGACAAGTAACAGATTACATCAAACTTCAGAACTTCTCAAATAC CTAGTTATTATACACATTTCCCATCTGTCTTGCA[C/G]JGGAGGGATCTTGGTCGGCTTAACA
WI-8540	73 T C	GGCCTGCATTT GGCTTA	GGCCTTCTTTT TCAGGCAC	CCAGCTGGAGGTGGAATAAATGCGGCAACCACAGAAAAACACACAGCTACACAGGCCTGCATT TGGCTTA/CJGTGCTGAAAAAGAGGCCGACCTCTTGATAAAGAATGTCT
WI-8039b	97 T C	---	---	AAGTAGAACACAATAGAAATGGCTCAAAAATATCAGAATGCATACGCACATCACGAGTAAATACTG TTTGGTAAACCTTTTTCAGTTAAATATGTAT/CJGTGCCGTGCATGTATGATTAAATATCCTTCT TACCACAGTCACCTAAAGAACCAAGCTTAGGACTAGGACACACACCATGCAGAAAAGAGCAGGGA GACCAGACACTCTGGGTGAGATGATGATTTTAATGCCGAGCCGACACCCACA
WI-8039a	87 T C	---	---	AAGTAGAACACAATAGAAATGGCTCAAAAATATCAGAATGCATACGCACATCACGAGTAAATACTG TTTGGTAAACCTTTTTCAGTTAAATATGTAT/CJGTGCCGTGCATGTATGATTAAATATCCTTCT TACCACAGTCACCTAAAGAACCAAGCTTAGGACTAGGACACACACCATGCAGAAAAGAGCAGGGA GACCAGACACTCTGGGTGAGATGATGATTTTAATGCCGAGCCGACACCCACA
WI-8044	107 C A	---	---	CACAACATTCAGAAAGTTTCTGCATTGTGCTTCTCTGTATGTCTAAAAGATTTGAGCTTTGACTAT ACGATTTCCACACTGAACGATTCATAAGTTTCTCC[C/A]JAGTATGGATCTCTGATGATTAAATA AGCCCCGAATCTGGCTAAAGGCTTCCACATTCAGACATTTGTAAAGTTTCTCCAGTGTGGAC TCTCTGGTGTGCACAAGAATGGAATTCGGCTGAATGCTTTCCACACT
WI-8550	32 G A	GGGAACATCA ATGCAACAAG	AGTTTACAAAT T	CTTACTACATGGGAACATCAATGCAACAAGTA[C/G]JAATTTGTAACTCAAGCCACAACTTAGTTA ATAATCATGGTTAAGGGACATTGCCAAAGAGCAACTGATGCCTCAGTGAA
WI-8057	87 T A	---	---	TATTAGATAAAACCCCTTTGTTCCCGATTGAGGATGTTTAAATTTGCTTCTCTTTAACTCTGTGACTTTT CCTGGTTCAAAAGGACAGTTA/GATGGACAGCAGCAGAGGAGTGGGGTCTGAAAAATGTAATCTTT GTGTCAAGGCACCTCTGTGGCTCACAACCTGCCCCCTGTGACAGGGATGCTGCCCTTCAGCCCTAAAG ACACTAGGGCTTTTCAATGGACGGGTGTGAAGCAGCCAGATGGTAAGG

WI-6192	91 A G	GACTGCTAAG GATTTAATTTG	TGAAGTGTAG ATGGCTAAGTA TTAAAA	AAGAGGAACAAATTAGCTCAGTCCAACATGATTGGCAGTTGGCATATTCTAGTGAAGCAAGTGTCTCT GACTGCTAAGGATTTAATTTGGATJAGJATTTAATACTTAGCCATCTAACACCTTCAAGCATAAAC AAGTGATGTGCTCTCACAAATACATTTCTCAAACTCAAAACATCATGCTTGAATATACACTGAACCTT GTCACCAAGAAGTCACATGGCAATGATAATAAGAAATJAJATGCAGACTACACTCTGAGGATAG AGCTCTAAAGAGTAAAAACAATGGAATTTGGAAAAAATAGGAGTAA
WI-6194	105 T A	CACATGGCAA TGATAATAAA	TCTATCCTCAG AGTGTAGTCTG CA	CATATGCTGCTTTATTTCTGTAAGGATACACTGAAACGTTAGATGATAATAGCTAATGACAGAATGT AGAAATGAGGCATCAGCTTCTCTAACCACTCCTACAAGAATGTTAGTATGTTATGTCATTACATGTTT ACTTTTGATATTGCTCATTAATACTATGTCJATATAATAATGTAGAATACAGTAAGTAGGTGATCC TGCATTTACAGTAAAGCGTAGTGGAATCCAGATTTCTCTTGAGGAAAA
WI-6213	164 C T	---	---	CGGGTTAAGAAATACCTTTAAATTTAGGTAATAAAGCTCAAGGAGGTGGGCTGTCATCTGTGGTG TCAGTCTTCTGGCCCCCTGGCTGTCAGTGTGCTCCAGGGCTTGACAAGCAGCTCAATTCGAAG[C/T] GGCCACCATGGCCCTAGGGTCTGTCACAAGTCCAGCAGCAATCATGGCGTTCTCGTATATCTGATCC AC
WI-6217	131 C T	---	---	ATAGTCTTTATTTGTCAACGAAGGCTACACGGGATCACTTCGGTTTTGTTTTATGCTTTTTTTTTCTC TAGAAGGTATCTACATCTGCATTTATTTACAGCCTTGTGGTATTTACACAGTCAAGATACAGTGTTA GAAACACAAAAGTGTGAGAAAAAACTTCTCAAAATTTG[A/G]TTCCAGACTTCAGGAAAATGATT TCCACATGGTAAGGCCAGAGTCTCCAGTGTGGTTCATCCAGAAAGCAGCTTG
WI-6238	175 G A	---	---	CTTGATTTAATCAGGGCTTTGGGGTCATAGGGGATTAGTCACTGTCACAGTCATAATAATGCATTTA TTCAGGGAACCTTTAAT[C/T]TCTTTGTCCTTCCAAAAACAGCTGCTGGAACACCTCAAAATTA GGGATGTTTCATCTAAAACACCTTTACTGAACTTGATTCCTTGGCCAGAGGAGTGCTTTACTGTAG CAGAGGACTTAATGCAATGCCTATTCCGGGCAATAAATGAATACTTGATGCATTCATACAGGCAAGAA TCCCAGCATCCCAGAGAAGCTGTGTCTG[C/G]A]CTGCAAGCCATGGCTGCAGACATCAGGGAAGCT GGTGCAGTTCTAGTCTCGCCTCCTCGATTCCCTGCCAGCAGTCTCCTCTCTCTCATCTTCTTGCCCC TCTG
WI-6303	96 G A	CCCAGAGAAG CTCTGTCTGC	CAGCCATGGCT TTGCAG	ATGCTTTTGCATGATTCTAATTATTGCCCTTTTTCAGAGCTCTGCTGGTAAAAAGTGGGTGCCATACA AACAGTCCCTTTTCAAGCCCAGCGTGTGCATGTCATCCTGCCAATCAATCACTGTATGTCCATTGTCCA AACAGGTCAACCGTTGTCTCCATGAAAAAACTGGATAAAGAGTTGCTGATAGTGT[C/T]CTGGTT CTTCCCTTTACATCTTTTGGGGGA
WI-6315b	193 C T	---	---	ATGCTTTTGCATGATTCTAATTATTGCCCTTTTTCAGAGCTCTGCTGGTAAAAAGTGGGTGCCATACA AACAGTCCCTTTTCAAGCCCAGCGTGTGCATGTCATCCTGCCAATCAATCACTGTATGTCCATTGTCCA AACAGGTCAACCGTTGTCTCCATGAAAAAACTGGATAAAGAGTTGCTGATAGT[C/T]CTGGTT CTTCCCTTTACATCTTTTGGGGGA
WI-6315	187 T C	---	---	ATGCTTTTGCATGATTCTAATTATTGCCCTTTTTCAGAGCTCTGCTGGTAAAAAGTGGGTGCCATACA AACAGTCCCTTTTCAAGCCCAGCGTGTGCATGTCATCCTGCCAATCAATCACTGTATGTCCATTGTCCA AACAGGTCAACCGTTGTCTCCATGAAAAAACTGGATAAAGAGTTGCTGATAGT[C/T]CTGGTT CTTCCCTTTACATCTTTTGGGGGA

WI-6375	28 A G A A	GGTTATTGCA TATGGAATC	AATGTGAGATC TTTATTCTAAC CTTTTT	AAGGTTATTGCATATGGAATCAATAG[A/G]TATCTTTTACAAAAAAGGTTAGAATAAAGATCTC ACATTTGTAAGGCACATATGAACATTTTATAGCAAGCACAAAGGCGAGTGACATCAACAA TTGTGCTCAACAGATGAAATTCATAACCTTTGTTTCTGTATAAGACAAATTCAAACATACAAATCAAT TACAACATGTGCTTATCAGCTCCCTCCACCCCTATATTTAA[T/A]GCAACTGACAGTTTTTGAAG GACACCAAGACAATAGGGCT
WI-6409b	112 T A ---		---	TTGTGCTCAACAGATGAAATTCATAACCTTTGTTTCTGTATAAGACAAATTCAAACATACAAATCAAT TACAAC[A/T]ATGTGCTTATCAGCTCCCTCCACCCCTATATTTAATGCAACTGACAGTTTTTGAAG GACACCAAGACAATAGGGCT
WI-6409a	73 A T ---		---	CTAATATAATCCTGGGCACATGGATCCAAGAGAGATTTTGCAGCAGATTTTCATTATAGTTACTTAA CAGCTAAATAATAAGGGTGATTTAATTAACCTTACAGAGTCACTAAATAATGGAGGGGAAAGGAAA GAGTAGGGCTAATCCAGTAGAGACTGAAGCTG[G/T]TATCAACCTTCCCTAAGCATCTGTCTGGTCCG CAGC
WI-6523	165 G T GCTG	GCTAATCCAGT AGAGACTGAA	AGATGCTTAGG GAAGGTTGATA	TCCTCTAGCCCTATTAGGCTACACTGTAGTCACCTTCTATGAGCAAGGGAACAGGAAGATGGGC TCCTGGAGTCCAAACAGGATGTGGAGTCCCTGGTAGTTCTCTTTTCACACAACCTTTCCCTGAGA ACTGTCCAGTCAGGTGGACCTTCACAACAACACGAACTCTGAGAGAAAAAC[C/G]CTG ACTTTACAGAAAGCATAAAGCTGAGAAAAA
WI-6554	195 C G ---		---	ATTGTAATTAATAATTTACATGGGCCTATTTTAAAGGACATTTGTGTAATGTTCCACTTTGTTTTAAA [C/T]AATTAACAACATGTGGCTTAAATAATGTACAGATCAATGTAAACAAGTTTGAAAAATGGCGG
WI-6558b	68 C T ---		---	ATTGTAATTAATAATTTACATGGGCCTATTTTAAAGGACATTT[G/C]TGTAAATGTTCCACTTTGTTTT AAACAATTAACAACATGTGGCTTAAATAATGTACAGATCAATGTAAACAAGTTTGAAAAATGGCGG
WI-6558a	42 G C ---		---	AACCAACAAAACTAAGAAATGGGAAAAAGAAATGGCAGGTGAAGAACTCTTTTCAGAGAAATAAA AGTTGTCTAT[T/C]JAGCAATGGATGCTGTGTGTCAGAACATACTGCCAATAAATTTAAGAAAAAAGGA ACTCAATGAAGTTACTGTTATATAAAACAGGAGCTCACAGCAGGATGTAAAGAGTTAATGGAAGAT ATCGTGAGCCAAAAAC
WI-6629	75 T C GTCATA	TCTTTTCAGAG AATAAAAGTT	TGACACAGCAT CCATTGCT	CTGCCCTGAACCAATCAGATTTAGTTTAAATCAAAATCAATCAAACTCCAGCTGTTCTCTTGCTTTT TTACTTAGCAAAAGGAAAACTTTAGTGAATGCTACTTGACAAGAAAGAAAGTCATTTCTCAAGCACAC T[C]JACCCAACTTGAAGGTGATTGAACCCAAAATAATGGTGGGAAACACCAAAATGAGGTGGAGGA ATGAGAAAGATGTGTGGCCAAAGCTATCTGGTTATATTTGATGTTGCCAAT
WI-6644	134 T C ---		---	TGCTAAACACCACCATTTAATGAAGAGAGTACTAGGAAAAAATACCAACACAGCATGTGAACAGT TGGGCACGGTGGTAAAGGGCACAGACTCTGGAGCCACAG[C/T]GGCTAATACACTGCAATATTTTA TGTTAGCAATTAGCTGGTCTGTGTATACCCAGAAAGAGCGGTATCTGG
WI-6690b	106 C T AGCCACAGC	CAGACTCTGG	TGCGAGTGTAT TAGCC	

WI-6690a	28 T C A G A G	AAACACCACC ATTATTAAGG	GCTGTGTTGG TAGTTTTTCCT	TGCTAAACACCACCATTATTAAAGGAGAGT/C ACTAGGAAAAATACCAAAACACAGCATGTGAAAC AGTTGGGCACGGTGTAAAGGGCACAGACTCTGGAGCCACAGCGGCTAATACACTGCAATATTTTA TGTTAGCAAATTATAGCTGGTCTGTGTATACCAGAGAGCGGTATCTGG
WI-6770	53 A G A A C A T C A C A	CAAAACCCAA AACATCAA	GCTTTGGAGT GTATAATAGTA TGAATAA	GATGTTTAAATGACACAGATCTTCCCAAAGTAATCCAAACCCCAAAACATCACA A/G AATTTATTCAT ACTATTATACACTCCAAAGCAAAATACTTCAACTGCAATCC ATTCTGTAGGCAAGGTTACAGCAATCAGTACGACTAATCTTGACCAATGGGTGAGTCAGCCTCA TCACAGAGATTTTTTTTAAATTAGATGAATTTACATTTTAAAAACATGGTAACTCCAAGCATTCT TCCAAAACAAAGAA A/G AACATTGGAATAGTCACCTACAAGGAC
WI-6686	151 A G A	GATCTAACAG CTGCAGAATG	CCTTGTAAAGT ACTATTCCAAT GTT	CCTGAGAGGCAGATCTAACAGCTGCAGAAATGG C A CTTCTCCCTCCAGCTTTTGTGAACAAAAC AATTCTCTAAGGCATCAGAAAGCACTGAGTGCAAAATGGTTGTTCAGGTACAAGGTCTC TAAATACTGCCAACTAGCATACGTCCACTCTTGCAATCATTAAACAAAGGTTATTTCTCCTTG GTATTTTCAAATGATGCATTATACAATAAACGAAGTTAGAACCTTAAATGCACCCTGATTAATTATG TAACTGGTAATTTGTTTTAAAGCATAATAATTTGGTCTCTTTCATATAAATGGAATTTAAA TATTTCTGTAGTCTTGAGGT C A TCAATAGTAGTGCAAGTG
WI-6761	32 C A G		AAAAGCTGGG AAGGAAGAAG	CGTTTGTCTACACTTAATGGTTTTTTTTTAAAGGATTTTTTTCAGGTCTTGTGACGAACATCAA ACAAAGGTACTGAGTACTCCACAGGTACAGAGTCTGCCAA A/G CACCTTAGAAAAATTACAT GACACGGAGAAAATGCGCTCTTGCTCTTGAAGAGCTACAGTCTAGGATTTGACAACTCACAGT CTTAGGAAGTGGCAAGTAAGGCAAAATCTTCATCCCTAGAGCTATTGTG
WI-6844	225 T C ---		---	GTACAAAAAAGCTGAGAAAGAGCCAACTGGAAGTGTCAAGAAACATTTCTGATAGTACGGACAA AAGAGCTCCTTCAATCAAAAGGAGTTACATATTAGTTCTCACCATGCTAGAAAAATGAGATGCAGTTA AAATTC T C JAGAATAATTAAGGCCACAAAGTGAAACTGTTTCTGGGGCCCTATGTTGTAGATT CTCT
WI-6824	112 A G ---		---	TCCCCAGCTCATATTTATTTGGGCACAGAGTGGCACTCAATATCTGATGAACCTTGATGAACCTGAA AAGAGGTCTCTTAAACAAGATATCATCTCCGAAGAGAGAGTCCCAACCATATAAAATGATGAT CAAGTCCACAGAAAACTTTGCCCTCCCAAGGAATGTGTTCTAATTTGGTTTCAAAGCACACTGGTTCC CACTTTTACCACCT T C CATGACATTGGACAAATAGTACTACTCTTTCTAC
WI-6889	139 T C A A T T C	GAAAAATGAG ATGCAGTTAA	TCACTTTGTGG CTTTTAATTAT TCT	GCCAGTCTCTAGTAAGTCTCTAGGGACATGACCAGACCAGAGCCCTGTTCTATATGAAGACAAAC AGGTGGCCATACCTTGGTGGAGGATACCGCTGCTATTTCCAGAT G C AAGATTTGGTGAAGGAG ACCATGACAGATGACAAACGGAACAGTTTCTCAAAAACAGAGGTATGA AAAAAGCTTTAAAAAAGTGGTCTATCTTTAGAAACACTTTCAGCAAGATCAAGTAGCCCCAGCT ACAGCCT C T GGTGCACTTAACCCCTCTCCTTTT
WI-6911	216 T C ---		---	
WI-9413	112 G C ---		---	
WI-9557	74 C T ---		---	

WI-9617	37 G T ---				TGCTCTTTTATTTACGTTTACAAACACACGCCGTG[G/T]TGGCACAGTCTACCAAAGTGCCCGCAG CGCCACGCTGGCCGGAAGGTCTCATTCGTCTCTATGGACTGATTGAATTTGGGATGGCCAG CTCAGAAATGTTCCACGTGGGGGCACTCTGTGGGCAGAGAGGCTGAGCCCTTGCCACACACTGGCACCA AAGAGTTGCACGATGCAGCTTGCAGTGGGTCCAAAGCCGGGTGCTGTG
WI-9657	121 T G ---				AATGCTGGAGAAACATCAACATTGAGTTGACATTTGTTTGTCTGAAGTATAGTACCATCCACTAT CATGAATTTTGTTCATTACAAATGATAGAAAGCCAGATTCTCAAAATAAAGT[G/A]TAAATTCCTT TGTTAAATAAATGTTTATAAATGTTTATGAAGCTCATTACATTATCTTTTTTAAAAAAGTAAAAA TTTTAGAACATATGACGCTTTTCATAATTAATGCTTTTGATATAGATTGAGG
WI-13119b	114 G C GCTGGGA	CCTCCCAAGTA	AAAAATTAAC	CAGGTGTGGTG T	CAGGGTCTGCTCTGCTCCAGGCTAGAGTGAGGTGACACAATCAAGACTCACAGTAGCCTCAACCT CCTATGCTCAAGCCAGCCTCCCAAGTAGCTGGGACTACAGGCATGT[G/C]ACACCACACCTGGTTAA TTTTTTAATTTTTTGTAAGATAGGGTCTCACTATGTTGCCCGTCTCAAAAAACAACCAACTAAC CAGGGTCTGCTCTGCTCCAGGCTAGAGTGAGGTGACACAATCAAGACT[G/C]ACAGTAGCCTCA ACCTCCTATGCTCAAGCCAGCCTCCCAAGTAGCTGGGACTACAGGCATGTGACACCACACCTGGTTA ATTTTTTAATTTTTGTAAAGATAGGGTCTCACTATGTTGCCCGTCTCAAAAAACAACCAACTAA C
WI-13119a	51 C G ---				ACAGGAATCTGAAAGTTACCAAGGCAATTTCCCTTTTAGGATCATAAAGACTACAGACTTAAGCTT TTTT[C/T]CTTTTCCATATAATACACAAAATTTCTAAATATCCTTAAAAAAGAAAAATATAAATAGT TTCAGTATGTTATGTAGAGTCACATACTATGGCAAAAATATTTTATTAATTGAGGGAATAGGCCAAT TT
WI-13112	71 C T AGCTTTT	TCATAAAGAC TACAGACTTA	TTAGAAATTTT GTGTATTATAT	GGAAAAAG	TGTTAACATTTTATTGGTACGTGCTCTCAGTACAA[G/A]AAACAGCATCAGTAGTGACACTTTGAT AAAAAGGAATTTTAGCTTAGTAGAAAGAAAGCCCAAGGTCAGAAAGTATAATGAATATGTACAT CTTTATGGAAACTGTTTGTGTGACCATCTTTATCTTCCCTGTGGATGAGATGTATGCACACACAAGT AAA
WI-12988	36 C A CTCAGTACAA	TGGTACGTGCT		GTTT	TGCTATTCATGACAGACACGTGAGACAAAATATTCCTATTTTACAGATGGAATAGACCCAGACATTA TTCAGTACTTTAACCACTAATAGTGGAAACCCTGAGACTTTA[G/A]ATCTGCAAGGGGTTTAATAAT GCAAAATACACATATATTTCCATTTTAAACCCATAATTAAGTTTCCATTTTCTTAATAGAAAAATGA TAAAAAATGTTTCCCAATAT
WI-13020a	108 G A CTTT	CTAATAGTGG AACCCTGAGA	CATTATTAAAC CCCTTTCAGA		TGTATAAAAAATCCAACTTGTCCACAAGTACATATGTCTATGATTTTATGCATACATCCATATAC ATATATCAAGGTAAAGTCCA[G/A]GTACAAAAAACAAGCATTTCCCTATGGCCAGTGTCTACAGAAAGT AAGACTGTGCAAACTTTATCGTATAGTCAAAATGAGATTGCACACTAAGGCAGGATGAGGCAGAAGCA AGTTGTGTC
WI-12837	87 A G AAAGTCCA	CCATATACAT ATATCAAGGT	GCCATAGGAA ATGCTGTTTT		

L42611b	50 G C ---			GTCTCAGGCCCTTCTCTGGCTGCAGAGCCGCTTCTCAGGTTGCCTGTG[C]TCTCCTGGCCTCTAG TCTTCCCTGCTCTCCGAGGTAGAGCTGGGTATGGATGCTTAGTGCCTCAGCTCTCTCTGTCTATACCT GCCCATCTGAGCACCCATTGCTCACCATCAGATCAACCTTTGATTTACATCATATGTTATTCACCA CTGGAGCTTCACCTTTGTTAC
L42611	34 T C ---			GTCTCAGGCCCTTCTCTGGCTGCAGAGCCGCTT[C]TCTCAGGTTGCCTGTGCTCCTGGCCTCTAG TCTTCCCTGCTCTCCGAGGTAGAGCTGGGTATGGATGCTTAGTGCCTCAGCTCTCTCTGTCTATACCT GCCCATCTGAGCACCCATTGCTCACCATCAGATCAACCTTTGATTTACATCATATGTTATTCACCA CTGGAGCTTCACCTTTGTTAC
WI-1172b	179 C T A	TGAAGAAATG GCTGATACCA	ATGTGCAATTT TCACTGCAG	TGAACGTGTGGTTAAACTAGGCAATTGGTTAAAAATCAATTTAAAAACAGGCCCTAGAAAAACAGTG ACCACACCTCAAGCAATGATTATCCCTAGCACTCAGATTATGTTCTTGAATACCATTTTCTGCTTTC AAAAGAAAGACATGAGGGCTTCTTGAAGAAATGGCTGATACCAAG[C/T]CTGCAGTGAAAAATGCA CATGATGAGCCTGGAAACATGTTGT
WI-1172a	17 C A ---			TGAACGTGTGGTTAAAC[C/A]TAGGCAATTGGTTAAAAATCAATTTAAAAACAGGCCCTAGAAAA GTGACCACACCTCAAGCAATGATTATCCCTAGCACTCAGATTATGTTCTTGAATACCATTTTCTGCT TTCAAAAGAAAGACATGAGGGCTTCTTGAAGAAATGGCTGATACCAAGCCTGCAGTGAAAAATGCA CATGATGAGCCTGGAAACATGTTGT
WI-1177	35 G C A	GCAGATTGGA AGTGTGAAAA	CACCTACATTT CTGAATATTTA GACTCTTT	AGAGGCAGATTGGAAGTGTGAAAAAATGAAAGAA[C/G]AAGAAAAAAGAGTCTAAATATTCAG AAATGTAAGTGTGCCCTCAACTGTTCTTACCCTAAATCTGCAATTTGAAAACTAGATTGAAT TCCTTTGCAAAACCCTTGCAATCATGGATACCCGAGTTAAACCGTTAATTTAAAGACATTAACATGG CCTGGTG
WI-1231b	141 G A ---			TCCATGGTTTGGTTGCTACTGACTTTGTTAGCCTTACTGCCCACTATGCATTGGAACATCCCATATTC CAACTAAGCAGGAGTGTTCACAATAAACAACATAGGCTCTTTATCTCCTTCTTTCATTAAATTTCTT TCAC[C/A]TTATCCCTCACCCCTGAACGCCCTTCTTCCCTCGTAGTGACATTTTAAAAATCCACTTTAC ACATTCGGACC
WI-1231a	126 T C A	GGCTCTTTATT CTCCTTCTTTC	CGTTCAGGGTG AGGGAATAA	TCCATGGTTTGGTTGCTACTGACTTTGTTAGCCTTACTGCCCACTATGCATTGGAACATCCCATATTC CAACTAAGCAGGAGTGTTCACAATAAACAACATAGGCTCTTTATCTCCTTCTTTCATTAAATTT CTTTCACGTTATTCCTCACCCTGAACGCCCTTCTTCCCTCGTAGTGACATTTTAAAAATCCACTTTACA CATTCGGACC
WI-472	114 G C ACAGAAAAAG	ACATACATAT CCATTATACA	GACCTTCTTT TCCAGCCC	GAAGGCAGGACTGTGTTTGGAGGACAAAAAGTAAATCTTTTATATCTTTATTTTAAATTTATT TTTTTTCAGGCATATAGACATACATATCCATTATACAACAGAAAAAG[C/G]GGCTGAAAAAGAAAG GTCAAGTGAGATTCAGATATTTCTTAAATGAAGGCTGACAAATTTGGGCTTGATT



WI-478	46 C T	GCATGTCTGTG T TACTCTATTT TGITC	AAATGCCACAG GTGGCT	AAACCACCTGCAACCTTCAAGCATGTCTGTGTTACTCTATTTTGTTC[CTAGCCACCTGTGGCATTTC CAAAATATGATAATCTCTGCCACCATACTGCTTTAAACACAAATAGAATCTGGCAGCAAAATATAGC ATAAGCTTACTTCTCTAAATCAAAAGGCTACCATCAGTACCTTAGCACATTTAAAAAATAAAAAACCAAC ACTGCCCA
WI-533	29 T C	ATCACAGCAG AGTACCTTTCT AACT	CCTTCCAACCT CTACACAATCT T	AGCCATCACAGCAGAGTAGCTTTCTAACT[CTAATAAGATTGTGTAGAGGTTGGAAGGAGGACAGGA CTGTCTGTGGTATAATGACCCCTGTGTCAGTTAATCCA
WI-601b	112 T A	---	---	TCACTTATCTCTTTTGTGGTGAGAACACTTAAATCTAAGAATGATCAATTTCAAATAAAGATGG TAGTGAGCGAAGCAGAGAGGTTTTCATTGACTCTCTAACTGAGTAC[TAJCAAAAACGAGCAGGTGCT CACAGTCAGGAAGCAGGTGCTGAGTACAGGAT
WI-601a	74 C T	---	---	TCACTTATCTCTTTTGTGGTGAGAACACTTAAATCTAAGAATGATCAATTTCAAATAAAGATGG TAGTGAG[CTJGAACAGAAAGAGGTTTTCATTGACTCTCTAACTGAGTACTCAAAAACGAGCAGGTGCT CACAGTCAGGAAGCAGGTGCTGAGTACAGGAT
WI-863	107 A G	CTCCTTCACAA CCTCACCA	CTTCCCGGTAA GCCAAGT	AACAAAAACAGACACCCCTCGGCTTCTTCTCACCAGTCCACATGGTGCCAAACAATCCCACATTCTCT ACATCTCCCCACTGGGTGCTCCTTCAACACCTCACCA[AGACTTGGCTTACCGGGAAGCATAAA GCCAAAGCATTTAGTCTTTTATTGCAACAIGGCTGGCTGCAATAC
WI-919	36 G A C	ACTGCTTGCTT GTTGATTTAAT	TTATTTCTAATC CCACATGACAG C	ACTCACTGCTTGCTTGTTGATTTAATCAACCTAGCC[GAJGCTGTCTATGTGGGATTAGAATAAATA AACACAAAAATGAAAACACACAGATTGCTAACAAAGCAGATCTTTTTTCAAGGCACACGTAAAGAT ATAACTTCAA
WI-991	37 A T	---	---	TGCATTATTATGCACCAATAATAACTTCTGTACAT[ATJCATTTATGTATTTTATTATCACAATAAT TATGAGTGAGGGATGATTGTATCCCTATTTACAGATGAGAACACTGAGACTTAGAAGAAGTATCT TTCCCAAAGTCACAAAGTTAGTGACAGAGCCGGGATTCGAATCCATCAACTTGAATCCAGAGAAAAT GTTCTGCATCACTGTACACACTGACTCCTTTTCTCCTTTTGAACAAGGC
WI-1011	70 G C	CAGTATCTGA AGTTTTTGCT	AGGAACACCTA CAAAATGACTT CT	CTTCTGACCTGTTTGCAGTGGATAGTGTTTTGAAGGCTGTCTCAGTATCTGAAGTITTTGTCTCC A[GCJAGAAGTCAATTTGTAGGTGTTCTCGGCGTITTTTGTACAGTTTCCATTTCTCTAATACACTGC CGTCTTAAGGGAGGCTTGCAGAGCATTTATCAGATGGCTGTTTGTGCACTTCTGTGCACTGAAG
WI-5381	178 A T	---	---	TTTCATGCAGAAGGTCCATGAGTTTACAGAATCTCAAGGAAGAAAGGCCCTAGAGATGACACCCAGAA ATGAGAGTGGCTTGCTCATGAAAATTGGACAGCATGTTCCAAAGCAGAGGGGAACAGCATGGAGAAGA AAAAATCATCTATCCACGTGCAGAAACTGGCAATTAGTTTGT[ATJTTACTAAAACACAAATGT TTAACTTGGGGTCCACAAACAAGGATATGTTGGCAAAATGGTATTTCTGTGATG
WI-5791b	76 G A	---	---	CTATGTATTCATCTAGCAAAAGCAAGACTATTTGGATAAGTTTCAAAAAGATGAGAACAGGTCCTA GAACCTCAG[GAJATCGAAAGGAAGTTTCATCTAGTCCATAGACCCTATCTCACTGACCCCAAAAGGTA AAAAATAAAATAAAGTAAAGAACTTACATCAGATTGTGCAATTTCTTATTTTGGCCACCCTGTTTGT TAGGAA

WI-5791a	44 C G ---			---	CTATGTATCCATCTAGCAAAAGCAAGACTATTTGGATAAGTTT[C/G]ACAAAGATGAGAACAGGTC CTAGAACCTCAGGATCGAAGGAAGTTTCATCTAGTCCATAGACCCTATCTCACTGACCCAAAAGGTA AAAAATAAAATAAAGTAAAGAACITACATCAGATTGTGCATTCTTATTTTGGCCACCCTGTTTGT TAGGAA
WI-5406c	120 C T ---			---	CACTCTGCTGTTGTCCATGGGTGCCACAGACTCTTCCAGAAGAGCCACTTCCACAGATGCAACAGGCC TTTTGAAGGAGCCAGTTCTCAGCATGAGCCAGGATGTCAAGGTGAGAAAC[C/T]TATGAGCCAC ACTTCTCATTTCCCTTAGAAATTTCTTGGACTCTGTGAAGAGGAAGGAAAGGAAAAAGAGAGGCAA GG
WI-5406b	118 C A A	CCAGGATGTC AAGGTGAGAA	AATGAGAAGT GTGGGCTCAT		CACTCTGCTGTTGTCCATGGGTGCCACAGACTCTTCCAGAAGAGCCACTTCCACAGATGCAACAGGCC TTTTGAAGGAGCCAGTTCTCAGCATGAGCCAGGATGTCAAGGTGAGAAAC[C/A]CCTATGAGCCAC ACTTCTCATTTCCCTTAGAAATTTCTTGGACTCTGTGAAGAGGAAGGAAAGGAAAAAGAGAGGCAA GG
WI-5406a	42 A G ---			---	CACTCTGCTGTTGTCCATGGGTGCCACAGACTCTTCCAGAAGAG[C/G]GCCACTTCCACAGATGCAACAG GCCTTTTGAAGGAGCCAGTTCTCAGCATGAGCCAGGATGTCAAGGTGAGAAACCCCTATGAGCCAC ACTTCTCATTTCCCTTAGAAATTTCTTGGACTCTGTGAAGAGGAAGGAAAGGAAAAAGAGAGGCAA GG
WI-5798	48 G C T G	TTTATCTCCC TTGTTTCTTT	ACTGTTAGAAA ACCAGTATTTT TCAAT		CCATTCCTTCTTCCCTCTCCCTTATCTCCCTGTTTCTTTT[G/C]ATTGAAAAATACTGGTT TTCTAACAGTGTGCTGGTATGGATACTAIGTTATAACATGCATAGTTCTATATGGGTATCA
WI-5415	54 T A TTT	TCTCATGAAT TCATCTTTCAG	GGACTAATTCA TGATCCGATCT		CCTGCTAATAATAATTTAAGCACGATTTGTCTTCATGAATTCATCTTTCAGTTT[T/A]TAGATCGGAT CATGAATTAGTCCAGGCTTTTAGTTGTAATCGAAATTGGA
WI-5437	41 C T G	TCCCAGAGAA AAATCCAAGA	AGTTTCTAAAC ACAAAATATG GTTTAAG		TGTTTTAACCCAGGCAGACCTCCAGAGAAAAATCCAAGAG[C/T]CTTAAACCATATTTTGTGTTTA GAACTCCTGTGGCCAACTCTTGATGTGAGTGAC
WI-5481b	131 A G CTGCAGTCG	TGTCATTTATG	TTACTTCCAGG CTCCAAGTAT		AAGCCAAATTCACATTAGTTGATGAATTTGAATTTTACAGTATCTAATGCGGCGCATCTGTTTCAAC TCTCTGTTTTCAAGAGGTAGTATATGTCTGAAAAATCTATTTTGTCAATTTATGCTGCAGTCG[A/G]A ATACTTGGAGCCTGGAAGTAAAGACTTGGCTATTTTTCACAATTA
WI-5481a	29 G A AATTT	CCAAATTTAC ATTAGTTGATG	CCCATGCAATTA GATACTGTAAA ATT		AAGCCAAATTCACATTAGTTGATGAATTT[G/A]AATTTTACAGTATCTAATGCGGCGCATCTGTTTTC AACTCTCTGTTTTCAAGAGGTAGTATATGTCTGAAAAATCTATTTTGTCAATTTATGCTGCAGTCGAA ATACTTGGAGCCTGGAAGTAAAGACTTGGCTATTTTTCACAATTA
WI-5492	38 T C ---			---	TCATGAGTCTTTCTTCAAGATGCTTGTAAAGTCCCA[T/C]CAAGAAAGGATCCCATGGCCTAAT GAAGATGTACCTCCACCCTTAGGATATTTTGCAGACCAA

WI-5826	134 T C	---	---	TAATTTTTTTCTCAATTCCTGGAGCACACCATGCTCTTTCTATTCTATGCTTCACATTTATTTTTT TTTCACTTAGTTAAATGCTTTTCCCTTGATCTAGCAATGGCCAGTTTATACATATCTTTAGT[C] TTTCAATTAATGCCACCATAGAAATAATTTTCTAACCAACGCAACAGCCTCACTCTTCCTT CCTGGTGCATTTACTCTTACAC
WI-5546	40 C T A	CCCAATACTTT TTCAGGTGAA	CCTGTATTTA GCAACATGGG	CCTTATAACCCCAATACTTTTTCAGGTGAAAAAGGGAAA[C]/TACCCATGTTTGCATAAATACAGG AGTATAACAGCATGACATGTTAAGGGAATTACAAATGCTTGAGTGTAAATCTGATGTGGGAAATAT TAGAAAATTAAAGCGAGAGAGGCA
WI-5552	97 C T	GGCACCAGCCT TTTTAGAGT	TGCACAAATTG OCCAGG	TGTTTGTTCTGCACCTCCCCAACAGTGGTCAATGAGCCTCAAGGGTTTGTGAGCGGTATGGGT GGGGCTATCGGCACCAGCCTTTTAGAGT[C]/TCCCTGGGCAATTTGTGCACAGTGCAGA TAAGTTGATTTAAACACCTCTGCGCTCAATTTTCTCACCCTATAAATAAGATAATAGTATCTAAAA AAAAGAGAGAGAAATTAAGTGGATAGACATGAATACTCTGATGACTGGTTGTATCCCTGAA TCCTGCAATATACACATGATTCATGAT[C]/TCCATTTTGAAAAATTAAGCTTTTGTGAATGTGTTTCCA ATG
WI-5836b	161 C T	---	---	TCGGGTATTAGGATCGTTCAACCCTCGATGATGGGGTTTCATAAGGAGGTGGGA[C]/TGACAC ATTACTCTCCAACTGTTTCATCAGAACACTTCAACAGCG
WI-5573	58 C T	GTTCATAAGG AGGTGGGA	TGAACAGTTGG AGAGTAATGTG TC	CAGGACCTTGAGCCCTTTGCTGTTTGCTCTCCACCCCTCACTCTTCTCTGCTGCCATGGGTGGAGC CTCTCTCAGGCTTCCCTCTATGCAACGCGTCTATCTCTATATGGGGCAATATCCCAATTC[C]/A TTTTGCCATTTCCCTGTATATCAACAGAGAGAGAGGGTGG
WI-5850b	134 G A	---	---	CAGGACCTTGAGCCCTTTGCTGTTTGCTCTTCCACCCCTCACTCTTCTCTGCTGCCATGGGTGGAGC CTCTCTCAGGCTTCCCTCTATGCA[C]/TGGGTCTATCTCTATATGGGGCAATATCCCAATTCCTCATTGG TTTTGCCATTTCCCTGTATATCAACAGAGAGAGAGGGTGG
WI-5850a	92 C T	---	---	TGCCTGATTGACACATAGTTATCTGACAGTAAATCAATCTAACATCACAATAATCTTTATTTCTGCCTG TCACACTAATTTGCAAAGCATTCAAATTGATTGACTAATTAATGAGCATCGTGTCTATT[C]/ATTCAGTGT TTAGGTTCTCAAGAGAAATATGCTGTTCTCTCTGTAACCTCAAGTA
WI-5612b	125 A T	CTATTAATGA GCATCGTGCA TTC	TTCTCTTGAGA AACCTAAAAC ACTG	TGCCTGATTGACACATAGTTATCTGACAGTAAATCAATCTAACATCTTATTTCTGCTG CTGTACACTAATTTGCAAAGCATTCAAATTGATTGACTAATTAATGAGCATCGTGTCTATTCCACAGTGT TTAGGTTCTCAAGAGAAATATGCTGTTCTCTCTGTAACCTCAAGTA
WI-5612a	44 T A	---	---	TGAGGTTCTCAAGAGAAATATGCTGTTCTCTCTGTAACCTCAAGTA
WI-5636	26 A C	GCCAAATTTAT CCGCAATAAA	CATCGAGGACT TTGGGAA	TGAGAGCCCAATTTATCCGCAATAAA[C]/TTCCTCCAAAGTCTCGATGGAGGCAATTCAGAATCGGG GCAGGGGAGGCAGAGGTGAGACAGATGTGAAGAAC

WI-5865c	103 C G ---			---	TTAGAAACCTCCATTATCTGCCATGGTACATCTTTTAAAGAACTCTTTTTTTCATTATGCATTG ACTGACTCAGTCTGCTCTATCAAAAATTAA[C/G]AAATAATTAATATTTTATTTACAGAGGAA CTCAGAAGCCAGAAAAAATGACCAAGACACAGTCCAGTCTCCATCTTCAAAAGGTCACAGTCTTCA GAGAAGACAGACAACTAAATAATCCAGG
WI-5865b	99 T A ---			---	TTAGAAACCTCCATTATCTGCCATGGTACATCTTTTAAAGAACTCTTTTTTTCATTATGCATTG ACTGACTCAGTCTGCTCTATCAAAAATT[A/AA]CAATAATTAATATTTTATTTACAGAGGAA CTCAGAAGCCAGAAAAAATGACCAAGACACAGTCCAGTCTCCATCTTCAAAAGGTCACAGTCTTCA GAGAAGACAGACAACTAAATAATCCAGG
WI-5865	165 T A ---			---	TTAGAAACCTCCATTATCTGCCATGGTACATCTTTTAAAGAACTCTTTTTTTCATTATGCATTG ACTGACTCAGTCTGCTCTATCAAAAATTAAACAAATATTAATAATTTTATTTACAGAGGAACTC AGAAGCCAGAAAAAATGACCAAGACACAGT[A/CC]AGTCTCCATCTTCAAAAGGTCACAGTCTTC AGAGAAGACAGACAACTAAATAATCCAGG
WI-5874	76 T G ACAGAAAA	CATAGCATGG ATAATATTAT	CCTAGTAAGTT TCAGTCAATTG ATATGT		CTCAGACATTCATTTTCATTAGTTGTTAAATTTTGTGTTATTTTCATAGCATGGAATAATATACAGAA AAAAAATTT[G/T]ACATATCAAAATGACTGAAACTTACTAGTAGCAATTTGTTTGTCAATTTGCT CATGGAGCCGACGTTTCAGCTCTCAGTTTTTCCATCA/TATTTTTTCATAATTTACTCTCTTTCTGTC ACAATGTTCTGCTTCGTTTCAACTCTCATTTGCTGATTGGATGGTAGTCATAAAATATGGGTGATTG AGAAAAATAAGTAAATG
WI-5752	36 A T TTTTCCATC	CAGCCTCTCAG AGAGTAAATT	GACAGAAAAG AGAGTAAATT ATGAAAAA		TTAGCAGAAACAACAAAAAATGTCACAACACTGCAGTAAAGAGTGTTCCTCCGATAAATA[C/G]C CATTAGGTATTAGATAAGCATCCCATAAAACATTGTTGAAAACGAAGCCGAGTTTTCGATTTCACACA GTTGCTGTTTTAACCTCTCTAAATCCGATAAATAGCCATTAGGTATTAGATAAGCGTCCACGAAA CATTGTTGAAAACGAAGCCACGTTTTCCGATTTCACACAGTTAGTTGCTGTT
WI-5760b	61 C G ---		---		TTAGCAGAAACAACAAAAAATGTCACAACACTGCAGTAAAGAGTGTTCCTCCGATAAATAACCCAT TAGGTATTAGATAAGCATCCCATAAAACATTGTTGAAAACGAAGCCGAGTTTTCGATTTCACACAGTT GTCGTTTTAACCTCTCTAAATCCCGATAAATAGCCATTAGGTATTAGATAAGC[G/A]TCCACGAA ACATTGTTGAAAACGAAGCCACGTTTTCCGATTTCACACAGTTAGTTGCTGTT
WI-5760	187 G A ---		---		AATATCTGGCCTTTTCTCTTAGGAGGAGATTCTCACCATGGGAATCTG[A/G]TGAAGTTAGAT CCCACCTCAGTATTGAGAAGCTAAAAGTGAAGACTACTCATTTCTCAGTCTTCTTGCTG
WI-5944	52 A G GGAATCTTG	TTCTCACCATG GGAATCTTG	GGGTGGGATCT AACTTGCA		GAGTTTAATGAATCCTGTTCCCTCTAAAACCTCCTGTTCCCCCACTTCACATTCAGCAGATATT CTTTTCATGGGTTATTTGCCAAGTCATGAGGAGATGCATGTAATTTGATCATTTCAAGAGTGTGAG TAATGCTTGGT[A/C]/TTTGTCTGTGCGGTATCTGCTCCAATCACCATTCCACTTTATTTCTCTATTAT GCTGAATGAAACGGTTATATTACAG
WI-5967b	148 C T ---			---	

WI-5967	165 C T ---			---	GAGTTAATGAATCCTGTTCCCTCCTAAAAACCTCCTGTTCCCAACCTTCACATTACAGCAGATATT CTTTCATGGGTATTTGCCAAGTCATGAGGAGATGCATGTAATTGTGATCATTTCAAGAGTGTGAG TAATGCTTGGTACTTGTCTGTGCCGTAT[C/T]TGCTCCAATCACCCATTCCACATTATTTCTCTATTAT GCTGAATGAACGGTTATATTACAG
WI-6093	53 G C ---			---	GGGTAAGATCCAGAGCCACAGGTGAACTCGCCGGTATTGAAGTCTTTGGGCCA[G/C]GTCTGTAATG ATCTGACTTCTCCAGAACCCCTCTTCTCTGGAAGTTCACACTGTGCACTGAGCCCATTTGTAGGGA GGATTTGAACCAAAACCCAGCGACACTGCTGACATTTGACTTTTCAGCAAAACCTTGATTGACGGTGAC ACACCATGCTTCGAGAAGGAATGAGG
WI-6141	80 T C AGGTACTT	CTTCTTAATTA AGCATCTACA		TGAAAACCCCA GAACAGTG	GACTGTCTCAAGAAAAAAAATTAATAATTAATAATTAAGCACCTTCTTAATTAAGCAT CTACAAGGTACTTAIT[C]ACTGTTCTGGGGTTTTCATCTCTCACCTTTTAGACTTCAGGAAAT CAGAAAAATGCATGAAAACAGGATTGTTACATGCAGAGAAATAGGGGAGATAAAAATTTGTCTTTT CTC
WI-6450	45 T G TGTCACA	CCAATGACTT ATTCTATATCT		TTGTTTGAAT GTGTGGTACTT CT	ATAGGACAGTTTTCTTCCAATGACTTATTCTATATCTTGTACAT[G/G]AGAAGTACCACACATTTCA AACAGAGCCAGGCTATGCCAGGGTGGGATTATTTACGGTCACTGGTAATATGCATGTAAGACTA TTTTACTGGCCTCTTTATGCATAAACAAAGGATTTGGTCTATTCAACAAACATGTGTCAATACAG CAGTTGTCATGTCCCTCTGGTACTAGAAATAGTCTTTATAGAATATGTGTTTAGAATAAAGCCACA AATTATCTATAAAACAACA[C/T]AAGGAACGAGGCTCAAAAGTGAACAAAAACGGCCTTAGTTTC TAAGTGAAGACTAAGACGATATAGGAAAATAATACCGIGACCCTCTTA
WI-6461	88 C T ---			---	GAACTATCCTTTAGTGGTGCCACATTTTCTATTCTGATCTTTGGTCACACAGGGACTTTCTGGGCT ATGAAATAGTCTATTCACTGAACTAGTTATCATAAAGACATGCAAAACCTTTTCACAGTCTTGT CCTGG[G/A]AATATCTCACAAAAATTAATTATAAATGGCATGCGACTTTCTGATTTAGCCTGACAGG ATTGTTCCCTTT
WI-7466c	141 G A TTGTCCCTGG	TTTTCACAGTC		AGTCGCATGCC AATTTATAATT	GAACTATCCTTTAGTGGTGCCACATTTTCTATTCTGATCTTTGGTCACACAGGGACTTTCTGGGCT ATGAAATAGTCT[C/T]ATTCACTGAACTAGTTATCATAAAGACATGCAAAACCTTTTCACAGTCTT TGTCCTGGGAATATCTCACAAAAATTAATTATAAATGGCATGCGACTTTCTGATTTAGCCTGACAGGA TTGTTCCTTT
WI-7466b	80 T C GTC	GACTTTCTGGG CTATGAAATA		TGCTTTTATG ATACTAGTTC ACTGAA	TGCTTTTAAAAATAACAATGAACACCACCTGACACCATAGTCTGTCTCCATTTGCCACGTCTTCCTC AGTAGAATAAGACAGGACTTTGCTGGCTGCTATCT[C/A]TTCTCCTTCAGAAGAGCAGCTTGGCCCT CATAGGCAATCCATAGATATTGTTGAATGAATGTGCTTTTTCATATTGATTCTCTACATTTGATACA TTCTCAGGAGGGACATTTGGCCTAT
WI-9814	104 C A ---			---	CCTCTAACAGAAAACTTGACTTCTCCTCAACTCAAAATACCCCTTCTCTAATAATTT[A/G]AGTAACCA AAATATTCTTCAAAATAAATTAATCTTTTAAATTAGAAGAAGCAACAGTGTAGAGGTAGTACATTCA CCACC
WI-9720b	55 A G ---			---	

WI-9720a	47 A G ---	---	CCTCTAACAAGAAACCTTGACTTCTCCTCAACTCAAAATACCCCTTCTT[G/G]ATAATTTAAGTAACCA AAATATTCCTTCAAATAAATAATCTTTTAATTAGAAGCAACAGTGTAGAGGTAGTACATTCA CCACC
WI-9825	123 A T ---	---	CAGCTCTAAGGCAGGATGTGGCTTATGAGATACTTTGCAATGTCTGTCTGCACACCTTGAATCTGCC TGCTGGCTCCCTTACTTACCTCTCTGTCATGTGCAGATGAAGGCTCAGGGTCTT[A/T]GAGGATTAG TAAGATCTCTTTCTAAAGACAGGAGATTATTACAAGAAGAACTACCAGGGTTTAGTTTGCATT TAAGAAATGCCAGTCTTTTGTCTGTCATCATCTTGAACATTAATCCACATG
WI-9748	74 C G ---	---	CCACTTCAGTAAATCAATTTGTAGCACTTATTTCTAAAGATTTCTAAATTTTATATGTTTACCCCTTT GTCATT[C/G]TCAGACCAAGTACATGTTTTCACACAGCCATCTTCTTTTCCCTGGAATCTTTTCAGAAT TACAGTTATGATGTCTTTTATATCCCCA
WI-9943	91 T C ---	---	TGAGGCTATGATGCAGATTTGTAGTACTAATACTTATTAAAGCAATTTCAATGTTGTGGCACTGTT CGTTGTGTTTATATCCATCTT[C/T]CJATTTTAAATTTCTACTGAGCAGAAAAAATGTATACATT AACCTTTGCTCCCTATTGTACCTTTTAAATATGCACTTACACCTTCTCTTTTGTCTATTAGGA
WI-9891	39 T C ---	---	AGGGGCTTCACAGATCCGTCAGCTCAACACTGCCTCTT[C/G]AGTGAGCTGTGAACCCCAAGAC GGCTGTCATCAGTGTCTCTCTCTTCCCTTTCCGGACAACATCTTTAAAAGAAAAAAGAGTGT CTTTGAATGTATCCATTTTATCCCAATAATCTTGTGTTTAAATAATCTTATAGGCCAAATCCCAAT GTGCTGAAATATCTGCCAAGCATGTCACTTACACAAAAGGATTTGCAAA
WI-9897b	84 C T ---	---	CTCAGAAATATTCAGATCTTCCCAAAATGTCATGATCTTGTCTCAACATCTTATTTTCTCAAAAC ATTTATCTAGCCTGT[A/T]AAGTCATCCAGTGAGGCTGTTTATTCAATCTATGTGAAATTTTGAGCA ACCCACAGGATTAGAATTAGCATCTTATTTTGTACCCACATTA
WI-9897a	83 A T ---	---	CTCAGAAATATTCAGATCTTCCCAAAATGTCATGATCTTGTCTCAACATCTTATTTTCTCAAAAC ATTTATCTAGCCTGT[A/T]CAAGTCATCCAGTGAGGCTGTTTATTCAATCTATGTGAAATTTTGAGCA ACCCACAGGATTAGAATTAGCATCTTATTTTGTACCCACATTA
WI-9935b	115 C A ---	---	AGATAACCCCTGGAAAACTAGAAGAAATTAATAACGTGTGTCACACCTCACCAGAACTGGAAGGAGT CTGACTGTGTTCTTATGGGGTCTTGGACTGGCAGGGGGAGTTCAGACA[C/A]AGCCAAGAAAAAGCC TGATATTAGAGGCACCTTGCAATA
WI-9935a	42 C T ---	---	AGATAACCCCTGGAAAACTAGAAGAAATTAATAACGTGTGTC[C/A]JACCTCACCAGAACTGGAAGG AGTCTGACTGTGTTCTTATGGGTGCTTGGACTGGCAGGGGGAGTTCAGACACAGCCAGCAAGAAAGCC TGATATTAGAGGCACCTTGCAATA
WI-9983	146 C T ---	---	CCGTGTTAGGTGCCAGAGTCCATGCTCTTGGCCACAATGTTAGGCTGCCTCCCATTTCTTTGCTTGA TTCCCCAAACCCCAAGGTTCTACCCCAATCTGATCAAAATGCTGACTAGGTGCTGGTCAAGGTAA AGCATTTATGA[C/T]JAGACACAAAGACAAAGAGGTTAAAGTTGCTGTCTCTCAAGAGAGAGACATAA AAACAAATGGATCTGGAACTAAGTAAGGCTTCGAGGAGGAGGTGAGCAAAAGG

WI-10019	139 A T	TGATGTAATGC TATGTAGCAA ATCT	TTGATTACTGT GCTTAGGGGA	ATATCAGTGGTTGAGTATACAGCAATCTATTTTGTATTTATGTGTGCTATAAATCAATGGTTCTA ACATTCAAATAAGATCTTTTGTCTCTGCTCAGATGCTTTCAATGATGTAATGCTATGTAGCAAAT CTAATTTCCCTAAGCACAGTAATCAAGGCCCTTCTACCCCA
WI-10020b	122 T A TTT	GCGAGAAAAG AAATCATGAC TTT	GACTGTTAATT TATTTAATCAT TAGTCTGG	TTTACTTCATTGTCATCTTGACTCGTAAATAAATTAATTTAACTGGCTCTGAAAAGAATTTAGGC ATGCATAGAGAATAGCAGTGTATTTATGGCGAGAAAAGAAATCATGACTTTT[A/JAAAAATACC AGACTAATGATTAAATAAATTAAACAGTCTAGGGTCCGGAAGTGGCCTAAAGCACGTAAGTGGCCT CCTTAGA
WI-10020a	39 T C ATAAAT	TGTCATCTTGA CTCGTATTAA TT	AAATTCTTTTC AGAGCCAGTTA AC	TTTACTTCATTGTCATCTTGACTCGTAAATAAATTAATTTAACTGGCTCTGAAAAGAATTTA GGCATGCATAGAGAATAGCAGTGTATTTATGGCGAGAAAAGAAATCATGACTTTTAAAAATACC AGACTAATGATTAAATAAATTAAACAGTCTAGGGTCCGGAAGTGGCCTAAAGCACGTAAGTGGCCT CCTTAGA
WI-10064b	170 C T TTTACATG	CCTTAGATAT ATTGTGATTGT TT	ACCCTTCTGAA GCCAGATTTC	TCTGAGTCTTTCTGAGACACTTGCCATGGTCAAGGGTAGCAGGATCAGGGAAGGCATTATAAAT ATAATTTGCAGAGCATCTCTCCTATGCACAGATATTTGGTGACACTCTGTTTAAATCCAGTATCC CTACTCCTTTAGATATATTGGAATGTTTACATG[C/T]GAAATCTGGCTTCAGAAAAGGTTAGGTGTT T
WI-10064a	54 C A CAGGGAAGG	GTAGCAGGAT TT	GAGATGCTCTG CAAATTATATT TATTAT	TCTGAGTCTTTCTGAGACACTTGCCATGGTCAAGGGTAGCAGGATCAGGGAAGGC[A/JATTATAATA AATATAATTTGCAGAGCATCTCTCCTATGCACAGATATTTGGTGACACTCTGTTTAAATCCAGTA TCCCTACTCCTTTAGATATATTGGAATGTTTACATGCGAAATCTGGCTTCAGAAAAGGTTAGGTGTT T
WI-10289	29 T C CAAACTCTT	TCTCCTGTCCC TT	ATTCTTGTGT ATTGAATGGAA TTAA	CCAGGGATTCTCCTGTCCCCTAACTCTTAT[C/T]TAATTCATTCAATACAAGAAATTTATAGAA TATGCACCACATGCCACAAAGACACCCCTTATATTAGT
WI-1319	40 A T ATCTTT	TGGCACTTAG AACATAGTTT TT	GCCACACACC CTATGGT	AAGAAAATCCTTGTGGCCTTAGAACATAGTTTATCTTTT[A/J]ACCATAGGGGTGTGGCTTATCT TTTACCTGGCATGGCTTAGGTCCTGTTTATAATTTGGTATCTTTTGCACAAAGAGTCTGTTCTGAC AGTCTTATGATCTCTATTTTAAACATTAACACTGGTCAGATGTGTTTAAAACCTGTTGAACCTGCAGC
WI-10316	104 T C CTCCT	CTGTTGATTTT CTACCTCTATT TT	GCTTTGGAATG TATCCAAAAGT TT	AGCAACGTGTACAACCTTAGTGAGGTGTAATCAGAAGCATCTATATTATTCACCAGTCACCACCTG GACTATAGTCTGTTGATTTTCTACCTCTATTCTCTTAT[C/T]AAACTTTTGGATACATTCCAAAGCAT CATGGTCACCTCCAGTTATGAAGGATGTTTAAAAGCCAGCC
WI-2572	61 C T ...	...	...	AGTGAGTTGTGCACAAATTTGGAGACATTTCTGTGACCCCAACTTAAACACTTCTCCCACAC[C/T]AC AAAGTTAACACTTCAGTTACCAGGTGATGATTGAGCAGA

WI-10368	31 C T	TGAAGCAACC AGGCTTGTT	CAAGATATTAT ATTTATTCTCT AAGAGGGG	GAGGAAGCTGCCTGAAGCAACCAGGCTTGTTCCTACCCCTCTAGAGAAATAATAATATCTT GAGATAGGAGGAGAGCCTGAGGACAGTCTGGGTTTGTCTACCCACTGGAAGCAGAAATATCC TTCAAAGCTTTTCCAGTGAGTCATGTTGCTGCTAAACTATATGACCCCTGATGGATTGCCCTTCAGGG
WI-10391	32 A G	ATGACTCCCA GA	GGGAGTTAGGA GTCAAGAAGTT GA	CCTCCCGTTCTCTGCTCAGGATGACTCCCAAGTCAACCTCTTGACTCCTAACTCCCATCTCGGTG TCTGCTTCCAGGGGACGATCTGACACAGCCTTTTGTCTGCTTGACAAACAGAACTTGCAGAAG TGATGCTGCGTGACCTCCAGGATA
WI-10567c	146 A C	GTTACCCAGA GTCTTCTAATA GCAA	TGCCGCTTCCA GTAGCT	AGCGATGAAATTTATATGTTATGCCTGACTTAGCGGGTGCCTCAATAAATATTATCTTTTTCATATT TTCCAAATTAATACTAGAAATTTTACCACACAGAAATTTTAAACATTTTAAGTTACCCAGAGTCTT CTAATAGCAAACJAGCTACTGGAAGCGGCAAGAAATTTAACCCCT
WI-10567b	82 A C	---	---	AGCGATGAAATTTATATGTTATGCCTGACTTAGCGGGTGCCTCAATAAATATTATCTTTTTCATATT TTCCAAATTAATACTAGAAATTTTACCACACAGAAATTTTAAACATTTTAAGTTACCCAGAG TCTTCTAATAGCAAAGCTACTGGAAGCGGCAAGAAATTTAACCCCT
WI-10567a	60 T C	GGTGCTCAAT AAATATTATT CTTT	AAAATCTGTT GGTGAATTC TAG	AGCGATGAAATTTATATGTTATGCCTGACTTAGCGGGTGCCTCAATAAATATTATCTTTTTCAT ATTTCCAATTAATACTAGAAATTTTACCACACAGAAATTTTAAACATTTTAAGTTACCCAGAGT CTTCTAATAGCAAAGCTACTGGAAGCGGCAAGAAATTTAACCCCT
WI-11153b	84 C G	TACTTTA	C	CGTTGGGAATTTTCTATCTCACCTAAATATGCTGCTGATTAAATATACATTTTAAACAACTTCAAA TTGCTTAAAGTACTTTA[C/G]GAAGACCTTGACTGTGGATTTTGAGTTTTTCTTTATTCTTAATA AAAACATGCATATTTAAGTTGTCAGCAAGATGTACTATATGTTAATTATCTGATATCAGCATCCCTT TATGTAAT
WI-11153a	33 C A	AATTATG	GTAT	CGTTGGGAATTTTCTATCTCACCTAAATATG[C/A]GTGATTAAATATACATTTTAAACAACTTCC AAATGCTTTAAGTACTTTACGAAGACCTTGACTGTGGATTTTGAGTTTTTCTTTATTCTTAATA AAAACATGCATATTTAAGTTGTCAGCAAGATGTACTATATGTTAATTATCTGATATCAGCATCCCTT TATGTAAT
WI-2616	125 T C	ATCC	GTCCAGT	GTTGTGAAACTCCAGTATCATTTCCCTCAAACCACGCTTAAATCACAATCACATTTTCTTCTGTA GAGCTCAAACCTCAGTCTGAATGAAATGCTGCACAAATGTAACAAGAAATGATCCTAT[C/G]ACTGGG ACTACAGCCATGGAGAAAAGCAATGTAGTCAGCAAAATGTTAACAG
WI-11163	58 C T	CAAGTGAATT ATGACCAAAA TGAGA	TGCTCTTTCA TTTGAGGTTTT T	TGACTCAAAGGAAACACACAAAAAGTTTACCAGTGAATTATGACCAAAATGAGA[C/T]AAAT TTGTTAAAAAAAACCTCAAATGAAAGAGACAAATATAGTTCAAAGATTACAGGTTCAATATTTGT ACCTACAAAATAGGGATAGTCAATGGTGTGGCAGACTTTTCTTTCTTTCTTTTGTG[C/T]CTTA GAATCCATTTGCTTTTGGCCAGCATTCCTCTCCCAATATTTTAAAGGAGAGAAATTCACCTTTTCT CTGTTGGATGATCACAGGTTCTGCTCTTCCCAATCCAGAGGCGAGGTACTATTACCCCATGGGTCAT AGAGAGGATTAAACAGGGTGATGCCTGCAATGGGAATATTGAAAAACC
WI-10656	59 T G	---	---	



WI-11169b	154 T G	TTAACCAAGA GTTTTTCATTC TTTTT	CTAACTTAAAA ATCCTCATTC AAATATAA	CAGCATAGAGGCTGTTAGTGACCTTGAGTTAGATTTTCTCTATCGAGAAAGCAATAAGTGAAAGTAA CTGACTTGAAAAAATAAATTTAAGCCCTAAAGTAGTGCTTTTAAACCAAGAGTTTTTCATCTTTT TTTAAAAAAGAGCAGACAT/GJTATCATGTGTTCTGATAATTTTTTATATTTGAATGAGGATT TTTAAGTTAGCAT
WI-11169a	95 A G	AATAAGTGAA AGTAACTGAC TTGAAAAA	AAACTCTTGGT TAAAAAGCAC TACCT	CAGCATAGAGGCTGTTAGTGACCTTGAGTTAGATTTTCTCTATCGAGAAAGCAATAAGTGAAAGTAA CTGACTTGAAAAAATAAATTTAAGCCCT/GJAAGTAGTGCTTTTAAACCAAGAGTTTTTCATCTT TTTTTTAAAAAAGAGCAGACATTTATCATGTGTTCTGATAATTTTTTATATTTGAATGAGGAT TTTTAAGTTAGCAT
WI-10685	25 A G	---	---	CAAGTGCTGGACCTTGGATAGTCA/GJACCGGCTGAAGTTGGACAGTTGTTGGTTAGGTTGGAG ACCAAAATTCAGTCATCCTGTAATATAGATCTTGTCTTTTGGGTTTACCAGTAGGGTCACTAAAG AGAGATGGGAGACAGTCTCAATCTTGCTAAATAATCCAAAATAGCCATGGGTTTGGACAAAATAC AAGTTAGTGCTCTCTAATTTAATGGGCATA
WI-10686	133 C T	TGCCCTGTCC AAGG	CAATCTCTAAA TTCAATGTGTAG ACACA	AATAACCTGTGGCACATAAGGCAAAATACTGAGCCCCATACAGAGTGTTTTATGTTAATATTATGAAA AAAGTCAAGAGAAACAAGATGATATAGTTCTGCTAGAAATCTTGAAATCTGATGCCCTGTCCAAAGG C/TJTGCTACACATGAATTTAGAGATTGAATGAAATGGCAAAATTCAGAAAAGGG
WI-11175	77 T A A	AAATGATCTT TCTGCTCAAAG	CTGTTCTCACA TTCTTTTTGAA AA	GGTAGGATGATTCTAGAAATGCCACTTTACAGCCACTGAAATATATTGCTCCCAATGATCTTTCTG CTCAAAAGAGT/AJTTTTTTAAGTTATCTACTTATTTATATTCTGCTTTTTCAAAAAAGAATGTGAGA ACAGTACAAAATGTGTTTCAGTATAGCAAAATTAATAATTAATAAAGTAAGAAAAAGAGCCAAAT TGGGC
WI-10694	144 A G	TGCAAAATGCTT TATGAGTTTC	GGCATTTTGT AAGGAGGAAA	TAGAGAGGCTTTTCAGTTTCAGGGTTGGAGGGTGGTGAGGTGAGATTCACCTCTTAGAAGCACTGGC TATGTACAGAAAGATAAATCTGAGAAAGAACTCAGTTCTAAAGTGTTCAGTCTTTGCAAAATGCTTTA TGAGTTTTC/A/GJTTCCTCCTTTACAAAATGCCATCAATTCCTCAAGGAAAAAAGAGCTTTCT T
WI-2716	23 T C C	TGAATTCATCC AGAAAAACAG	TCTCTTTTCTC TCTTGTGTCA TTC	GTGAATTCATCCAGAAAAACAGT/CJGAATGACAACAAGAGAGAAAAAGAGAAATAAAGGTTTTTGT ATACGACAAAGTGGCTCAAGCAATTTTCTCTGTCCAGTGCATGGAGCAGTG
WI-10719	115 T C	TGACTCTCAAG GCCATTCTAG	GCAGTGCACGC AGCC	CAGGCCCAACTCTGTCAATTAAGTGTTTTAGAACAGACACCTCAGTCACACAAAAGTTTCTCTGTATGT GCCCCACATAAACAGTTACTGGAGGATGACTCTCAAGGCCATTCAGT/CJGGCTGCTGGCAGTGCTT TTCCAGCCTGCTGCCCATAACTAA
WI-10721	40 A G	TGGCTCTGCTA CTTGCCA	GAAACTCCCCAC ATAAATAAAT CTCA	CAACCAATTCAGATTTAATTTTTGGCTGCTGCTACTTGCCA/A/GJATGAGATTTATTTATGTGGGAGTT TCTGAAGATTCCCATGGTAAATAGTATTCCTCTCCCTGCTTAGGTTTTGAAGAAGTTGAA

WI-11204b	88 T C ---			GCACAGAAATTGATTAATATTGGCTGACCTTTGAGGAGGAGAACAGGGAGTTGAGGTAAAAAGGGTG AAAAGAAAAACTTTACCTTTT/CJATTTTAAAGTAACATAAAGGTATTATGTACATTTTAAAGTGAT CAAAAAATTTTAAATTGGGAAGAGATTTAGTGAATCAGAAAAAATAGTCTGAGGAAATTTATTCAGAAG GCAACATC
WI-11204a	80 T A AACTT	GTAAAAAGGG TGAAAAAGAAA	TGATCACCTTAA AATGTACATAAA TACCTTT	GCACACGAAATTGATTAAATATTGGCTGACCTTTGAGGAGGAGAACAGGGAGTTGAGGTAAAAAGGGTG AAAAGAAAAACTTTT/AJCACCTTTTATTTAAAGTAACATAAAGGTATTATGTACATTTTAAAGTGAT CAAAAAATTTTAAATTGGGAAGAGATTTAGTGAATCAGAAAAAATAGTCTGAGGAAATTTATTCAGAAG GCAACATC
WI-10732	80 C A ATTGGTTCAC	GCTGTGCTTC CTGTATGTACA	AAGAACAATG CATAACAGAA CTTTAA	ACATGTAATTTCTTTAGTGGTCAGCCTTCCTTACCCCCAAGAATATCCCTGGTTTATTGCTGTGCTTC ATTGGTTCACCTC/AJTAAAGTTCTGTTATGCATTGTTCTTGAGTCCACATAGGTGTTAATCATTTCCA CACCACTCTGTTTAAACTGTC
WI-11206	127 A T ACTC	GGTTGTGTTTT CTGTATGTACA	GAGTGACAATC CTAATGGTTGG	TAGCTTTTCTTTGTACGAGTGTCTATAAAGAAATTACCACCTGTGCACATTTGTAAAAAGATAGCACAG AGAGAAAGCATTACAGGGCACAGCACAAACATGAGGTTGTGTTTCTGTATGTACAACCTC/AJTCCAA CCATTAGGATTGCACCTCATATATAGACAGAAATTCAGTGGTGGTGAATTTGAATTCACACATGGA ATAAGTCTA
WI-11215	68 C T ---			GAAAAAAGTTTTAATTGGATTGCTTAGTTTGTCTAAATTTGACCTACTTTCAGATTTATTTTAGT [C/T]ATTTTCTCTATAATATTTCTTGAAGTGATGGATTTCTATAAATTAAGGAAACAGATATTT ACACAGAGAAAGACAGGATTGCTTGAATTAGTATAACATCTTTATCCAAAGCCCCCATTCACCATGT TTT
WI-11219b	89 G A AGAGAAA	GAGAGAAATAT TCCAAAAAGT	GGTCTCTAAT TTTCTACACT TTCT	ATGAAAAATGCATTAGAAAGAAATTGGAGGATAAAATTGAGAGAAATATCCAAAAAGTAGAGAAAA GAGACAAAGAGATGAAAAATAGGA[G/A]JAGAAAGTGTAGAAAAATTAGAGGCCATTTCTATACAG TCCAATATTTGAATAATAGTTATTCAAAAAAAGAGGCAAGAAAAATGAAGGGGAGAAAAATCCAC AAACATCTC
WI-11219a	18 G A ---			ATGAAAAATGCATTAGAA[G/A]AATTGGAGGATAAAATTGAGAGAAATATCCAAAAAGTAGAGAA AAAGAGACAAAGAGATGAAAAATAGGAGAGAGAAAGTGTAGAAAAATTAGAGGCCATTTCTATACAG TCCAATATTTGAATAATAGTTATTCAAAAAAAGAGGCAAGAAAAATGAAGGGGAGAAAAATCCAC AAACATCTC
WI-11222b	136 G A GCCTGG	CATACCACTGC AGTGTGA	CCTGGTAGCCA AGTGTGA	AGCCACAGTGGGAATCAITTTACACTACCGAAATCAGCAAAATGCTAAAATGGGCTTTGGATTTTGT TTTTTTTTTCCATAGACCCACCGTTGAACATTTGTTAAACATTTACCAGCATACCACTGCGGCTG G[G/A]TCAACACTTGGCTACCGAGAGAACCTGACACAGACTTCGTAATTGCTTTCACAGGCTACTGG AAAGCC

WI-1122a	25 C T A	GCCACAGTGG AATCAATTTAC	TTTTAGCATTT GCTGATTTG	AGCCACAGTGGAAATCATTACACTA[C]/TCGAAATCAGCAAAATGCTAAATTTGGGGCTTTGGATTTT TGTTTTTGTGTTTTCCATAGACCCACCGTTGAACATATTGTTAAACATTTACCAGCATACCAGTGGG CTGGGTACAACTTGGCTACCAGGAGAACCTGACACAGACTTCGTAAATTCGTTTCACAGGCTACTGGA AAGCC
WI-10775	39 C T CACTC	TTTATGCCATA TTAATTCATTA	CTAGATGTAAT TGCTAAGAAA ATATGATG	TTGCAAGTTTGTGTTTATGCCATATTAATTCATTACACTC[C]/TACATCATATTTTCTTAGCAATAACA TCTAGACACCTGGCACTCAGTAAGGATATTCCTGGCAGCATAAATCATTTGTTATCATTAGACATTGCA GGAACCAACCATATGGATGGATAAATGTGTGTTTAAATGAAGGCAAGCAATTA TTGCATGCATTTATACGAAAGGAATAAAAATATCTTCCCTTATAGTTGAATTTTAAAGTAAAAAATAAA GTTATACATATAATACAAAAAGTTGTAAAGTATAGTAACAAATGAATTAGAAAAATTGTCAGTGGTTGC TAGTACAGGAATCAAAATTTGGACTATGAACA[A/C]GACATAGTTGCTAAGGATATCCACAAATTTAT TTCATGA
WI-11226	165 A C ---	GCAAGGGAGG AACATTTACA	CTGGTGACATC AGAGATGGAC	CAGTGGCTGGCTACTGACAAAACGTAAACATCGTGGCAGGTGGCAAGGGAGGAACATTTACAG[A/G]G TCCATCTCTGATGTCAACAGCAGGGCCAGGAAGGTTGATCTGGAG TGGGACACACTGCTCTAGACC[C]/TTCCAGGGTCCCTCAAGGTGGGTGTAGAGGCCCTACTGCCCT GCCCTGGGGACGAGAGGCATCAGGGCTTAGTCTCTCTGGGACAGTGAAGGGCCACGACC ACAGAAAAATGCTAGGTCCTGTAGCAAGAGAGGAAGCATCTTCATGGCAGGAATTC[C]/TCATTT CTGTGTTCTTAGGGTTGTGGCTGGCCATCAGTTCAACTCAGCCCCCTGTCCCCCTGATCCAGCAACATT TCCGTAACCTACCTCTAGAAGTCATGCAAGAGAGAAATGATGA GGACCAACAGAAATTAATTGGCA[C]/CJAGGGTTTCTTAAAACTATTTCTGCAGAACATTAGTAAAGT TTAAATAAGGATCAGGCTACCAGGAATACAGTTAGGGAACATGTGGATGAATATTTCTTTAGTAGAG GACTTCTAAAGGCTATAATTTGGATACATTAGGCTCATTATGAATCTCAAAAGGAGCATGTAGT AGGGCATATCTAA
WI-10828	23 T C ---	CATTAACTCTGC AGGCTCTCC	CCTAACTGCAG GTGACTTAGAA A	TATGCCCTCCCAACGAGCCATCCACGCTGCTTAGCACAAAAAATAGAATACATCATTTCTGAATG GGCACATTAATCTGCAGGCTCTCC[C]/GCTTCTAAGTCACTGAGTTAGGCTGCAGACACTGTGTA TACCATATAAATCTGATTTCTGAGCAGGAGGGAGGCAGATGAGAGAAGGGCTGCTCCGTGAAATAC TAGTTCGG
WI-10832	91 G C AGGCTCTCC	AGAATTAACCT GTTCAAAAGT	TGGCCCTATAA AATTGGTATTA AG	GATTTGAGTATTATCAAAAATGGCCAAAGACCAATTAACAAGATTTAATAGTTAAAGCCAAAACTATA AAGAAATTAAGTGTCAAAAAGTGTGTTAAAT[C]/TCTTAATACCAATTTTATAGGGCCACCATTAACTT CTGAAGAAAGGTCAGCATATGCAACTAAATTTCTAAAGTCCAGT GGATGATGTTCTGTGGTCCCTTTAT[C]JAAAGCCCTCTTGATCCCAAAATGTGTAAATTTATTTATCT TGGTATTTCTCGCTTACCCATAGTCACTGTCAGGTGTCACCCCT
WI-2287	24 T C ---		---	

WI-2296	81 A G	TGTTACTTTGA TTCTTTGCTCT	GCAATCACAC AGCTAACTGG	TGGAGGGTTAGAAATGCAGGTGGCATCCTAGAAAGGCTCAGGCTTTAGAATAAGTTGTTACTTTGA TTCTTTGCTCTGAC/GGCCAGTTAGCTGIGGATTTGCAGAAAGTTACATTTGTTTGTG
WI-2300	77 G T	GGCAGAGAAG CCAGTCATAC	GGTTGGGTCAA TTTTAAAGCA	TTTCATCATGCTGCTCTCCCTGGAAATTTCTTTATTTAGCGGGGCGAGGTGAGGCACAGAAGC CAGTCATAC/GTJGCTTTAAATTTGACCCAACCCATTACTAAGAATAGCATTTCA
WI-2371	55 G T	GTCTTGTTCTT CCAGCTTCT	CAAAGATTGAC AGCACCCAC	CAATGATCCCCCAACATTTCCAGGGAAGGTGCTGGTCTTCTTCCAGCTTCTJG/TJGTTGGTGGCT GTCAATCTTTGACATTCCTTGTCTTGACGTGTATAATTTCCAATCCTTGCTCCAGCTTTACATGATGT TCTCTCCGTGTGCTGTG
WI-2395	122 A C	GAACATAATT GTAGAAAAAT	TCACCTTTCTA TTTATTCTGAA TTCA	GGGGGCACAATTTAGCTACAGTGCATATTTAAAAAGATAACATAGAAATATCATATAAATTAACCTTGGTTTAC TGAAATCTGAAAACTTAGGATGAGTGAACATAATTTGTAGAAAAATTAATCCTAATCCTGAATTC AGAATAAATAGAAAGGTGAATCATCTTATATCATTTAAAGAAAGCTAAATTAATAGTAACAATCTTTA CATTTACACAAAACCCA
WI-2437c	192 G A	---	---	CACCAGCCACCACCCCTACAACCTCCTGTGGGGAGTCTGGCTTTGATTATTTGGGGACAAAAATAATTT CAGCTTGAAGAGAGAGATTTCCAATCACAACTTTCTAAATAATAGACACCAAAAAATTTCCCAATGCTCTAA ATAGATGGACTCAACCCCTTCTCCTTCTGCAAGAGGCAATCGACGAACATCACAGTG/GA/GCTGTG GTGCCAAGGACGCATTATG
WI-2437b	179 G A	---	---	CACCAGCCACCACCCCTACAACCTCCTGTGGGGAGTCTGGCTTTGATTATTTGGGGACAAAAATAATTT CAGCTTGAAGAGAGAGATTTCCAATCACAACTTTCTAAATAATAGACACCAAAAAATTTCCCAATGCTCTAA ATAGATGGACTCAACCCCTTCTCCTTCTGCAAGAGGCAATCGAC/GA/JAACATCACAGTGGGCTGTG GTGCCAAGGACGCATTATG
WI-2437a	128 G A	---	---	CACCAGCCACCACCCCTACAACCTCCTGTGGGGAGTCTGGCTTTGATTATTTGGGGACAAAAATAATTT CAGCTTGAAGAGAGAGATTTCCAATCACAACTTTCTAAATAATAGACACCAAAAAATTTCCCAATG/GA/CTC TAAATAGATGGACTCAACCCCTTCTCCTTCTGCAAGAGGCAATCGACGAACATCACAGTGGGCTGTG GTGCCAAGGACGCATTATG
WI-2440	71 G A	GCAACCTACT GACAAATTTAA TTTTAGTT	AACAACCTCTGC TATTGGTCTCA C	CAGTAGGAAACGGGTTCTCCTTAGACCCCTCCAGAAAAATTAATGCAACCTACTGACAAATTTAATTTTA GTTG/GA/JGTGAGACCAATAGCAGAGTTGTTACCTGCAGAACT
WI-1356	123 T C	TGTTTAGGAA ATAATGACAA GAAAA	TGGTTACAACCT GTACCAAAACAT G	CTGTAACCTACACACATCCTCCTGTAACCTCTAGGTTACTTGTAAATACAAAACACAATGTAATGCT ACATAAAATAATTGTCATACATAATTGTTAGGAAATAATGACAAAGAAAAAGCC/T/CJGTACAT GTTTGGTACAGTTGTAACCCAGCCATTTTCCCCCAATAATTTCAATCCACAGTTGTTTAAATCCACAG AAACCACGAATG
WI-2886	46 C A	CAGAGTCTGG GGGAGAAGA	TTGCCATGCTT TATCTCGTT	ACAGTTAAGAAAAAGGCTGCAGCCGTTGCAGAGTCTGGGGAGAGAAG/C/JAACGAGATAAAGCATG GCAAGACCAACGCTGAAAGTATCCAGGGTGTGTATGTGCACATAGGAAGATCACTTACCTCAGCA TAGGAGGAGGGCTAGGCAAGGAAAGGTGTGACAGAAACAGAGGAGCGTT

WI-2906b	77 T A ---			CCTGAACACCTGGAGCACTCCCTCCCTGGACACCTTCATCTTCTGCTGGAACCTTTCCTGGAATGCTC TTCCCTCTT/A]GAGCTTTGCTGGCTTACTTTTCTTTTCCCTTAGGTTTCAAGTTGACCTTCAAAGTGACCT CCTTAGAGTTGGTTTCTGACCAACAAA
WI-2906a	50 A C TCTTGCTGG	GACACCTTCAT	AGAGCAATCCA GGCAAAGT	CCTGAACACCTGGAGCACTCCCTCCCTGGACACCTTCATCTTCTGCTGG/A]C]ACTTTGCCTGGAAT GCTCTTTCCCTCTGAGCTTTGCTTGGCTTACTTTTCTTTTCCCTTAGGTTTCAAGTTTCAAGTTGACCT CCTTAGAGTTGGTTTCTGACCAACAAA
WI-1736	175 C T ---			TACTCCTCATTCCTCATGTCCCTAGACGTACTCAGATTCCATGCCCTGAAACATTTATTTCCCTAAAT TAGATTTCCACCCCCCAGCACTATTACACAGAAACAGCATGGAGCAGTTTGGAGCTGGCTCTTAGA GAACCTTACTTAAGGACAGTGGTTTCCATCTGCTTCCA]C]T]AGAGATCTAGGGTGTCTTTTGGAAACC ACCTTGG
WI-1851	136 G A GTGTTAAGTA	GCATTGAATT AACTATAGAT	CACTAGCAATG TTAAACTGAAG TTG	AATACCCACGTCCTAACCCATCACACTGATCATCAATCAGGTTTTTAACATATTATCTGGGGAGG ACACAAACATTTAGACCATAGCAATTGAATTAAGTATAGATGTGTTAAGTAAATTAATTAACATGGTA CA]G/A]JACAACTTCAGTTTAACTTGTCTAGTGATCCATGTGGATACCATGTACCTTCTTACATCATG TGA
WI-3000	62 G A AGAGACCCC	CCCAAAACAC	ATTGACTAAGA CTCA	CTGATGTTTGGGAAGCACTGTCTTACATCTCTAAATGTACGACCCCAACACAGAGACCCCG]G/A]T GAGCTTAGTCAATCCTATAGTGGCAGTACCTGAATCAGTGGCTGGTGCATAGTAGACACT
WI-1754	177 G A TAGTC	TTTCTCCCTT CTTAAAGAGA	AAAGTCGAATT GCTCTGG	ATGGATCTGCTCAATTATAGTCCCAGATAAAGAGCCCTTCTCCCCCCCCCGGATTATTTTACT TAAGGGTTTAGCAAAATTCACCTGACAAAGAGTTAGGTTTCAACATTTGACCCCTCATAAAGTGATTTT TTCTCTTCTGTTTGTCTTCTCCCTTCTTAAAGAGATAGTC]G/A]CCAGAGGCAATTCGACTTTCTGT AGCCACAAGATT
WI-3167	37 T A TAGATTC	AAATTCACC ACAGATCTAT	TGTGATAGTT TGAGATGGTG	ACAACACAGCAAAATTCACACAGATCTATTAGATTCT]A]CACCCATCTCAAAACTATCACATCAA AGAAGCAAGGAGACATATTACTGGTGAGGAAGCCAAATTCAA
WI-3208	140 G A AGATAAAGA	GTGGAGTGGC	TCACTCAAACT AGGGCTTG	CAAGCACACATTCAGGCAGTGGCAGGTAGGGAAGGTGGGCAACTTCCGACGACAGAGGAGGAAG AAGTTCAGACCCGTTGGTAGGATAAGTGATCCAAACCCCTTTGTAGGGCAGGTGGTGGAGTGGGCAG ATAAAGA]G/A]CCAAGCCCTAGTTTGTAGTGACACTGTGGGGATTCAAG
WI-1775	47 C T TTTCTCTG	CCTGCATGGTC	AGTTGAGATT ATGACAATGAT GTAAA	ACTCCACCAACAGTTTGTGAGCCCAACCCCTGCATGGTCTTTTCTCTG]C/]TTTACATCATTTGTCATA AATCTCAACTGACACATCAGTGTCTCTGCCACCCCA
WI-3402	55 G A ACAT	AGCATATTCA TTGATTTCCCTT	GAGGACTTAAA AAGGAGCATTT G	CTGCCCCTTACATCCAAAGCCAGTTACTCGAGCATATTCATTGATTTCCCTTACAT]G/A]CAAATGCTC CTTTTAAAGTCCCTCAACTTTTAAAGCGGAAGTTGAGACATGCACAAATAGATTTCCTTAGGA

WI-3416	33 C T GTC	CCAAGTTGTA GCATTGAGAA	ACGAGCACAA CTACCTCTAAG AG	TCTGGTTCTCCAAAGTTGTAGCATTAGAGAGTCTCTCTTAGAGGTTGTGCTCGTCTTAAAA TATGTTTTCAAGATAGTATCTCCCTGTTGTACCTCTCCAAACAAGTGTACCAACAGCATTGTTAAG GAAATGTGCAATGCTTGCTACCTCTGACGCACACATAATTAAATCCCATTCCTTAAAAAGACCAGG
WI-3453	70 C T ATCAGAGAA	TTCTTAGGCC TATCAGAGAA	TCAATTTTCCC CATGACTTC	TCCTATTCTACAACAACAGAAATTTAACAAATGAAATCAGCTACTCTTCTTAGGCCCATCAGAG AATCTGAAAGTCATGGGGAAAAATTTGATGCCATGTGAATGGAGAAACAGACAGGCATATATGGAG AATTACAGTTTACCAGGGACACAATCCCACTTCCAGAGCCATCTGTAAAGAC
WI-3474b	109 G A ---	---	---	CATGCTAGGTAGATCTGATCATGAAGTTTGAACAACCTTAAATCATCAAGTGTGTCAACTGTTTGA GTCAGTTTCCCTAAATTTAGCACAGTATTTAATGAGGTGGTG[A]TGGGAGAAAAATTGATGGTTGCG TAGTTGAGTTTCTGTCCACC
WI-3474a	90 A G AC	AGTCAGTTTCC CTAATTTTAGC	CAACCATCAAT TTTCTCCCA	CATGCTAGGTAGATCTGATCATGAAGTTTGAACAACCTTAAATCATCAAGTGTGTCAACTGTTTGA GTCAGTTTCCCTAAATTTAGCAC[A/G]GTATTTAATGAGGTGGTGGGAGAAAAATTGATGGTTGCG TAGTTGAGTTTCTGTCCACC
WI-3502	79 C T GGATGTCT	CCTGGGTTTCT GGATGTCT	GGGTGACCTG TCTCA	TTTGACCCCATACATGAGATAAAACCATAAGAAATGGTGGAAAAATAAAACGGGAGAGACCTGGG TTTCTGGATGTCTCTCTGAGGACAGGGTCACCCAC
WI-3600b	146 G C CATCT	GGTTTCTAAC TGGATATAAA	CCAGTGCAGCC TTCCAT	TCACGGCAAGTTCTGCAGCAGTGTCTTGACTCTGCTGCTTCCAGAGTCTGATTATCCATGCCCCCTG ATAGTTCTGTGAGCCACCTAACTCGTTTCTGCTTAAGTTATCCAGAGGTGTTTCTAACCTGGATA TAAACATCT[G/C]ATGGAAGGCTGCACCTGGATGAGGTCACAAA
WI-3600a	78 T G ATAGTTCTG	CCATGCCCCCTG ATAGTTCTG	GGAAACGAGTT TAGGTGGCTC	TCACGGCAAGTTCTGCAGCAGTGTCTTGACTCTGCTGCTTCCAGAGTCTGATTATCCATGCCCCCTG ATAGTTCTGT[G/G]GAGCCACCTAACTCGTTTCTGCTTAAGTTATCCAGAGGTGTTTCTAACCTGG ATATAAACATCTGATGGAAGGCTGCACCTGGATGAGGTCACAAA
WI-3678	125 GT ---	---	---	TAAATCATGCTTATTTTCAACAAGTAATCCACTCACAATAGGCAATTGATGATCTCTTTCTGTAA GAAAAGCTCTCATGCTCTTCTGAAACCTTCTACTTACTGTGTGTATGATGCACCTG[T]CCCTTTGG ATAGATGGTTGATAGGAGATGGTTGTTAAAGACACAAATTTACCTTGTGTGTTTCAGGCAGAAATAG ACTCTCTGTGTAATCACTGAATGAGTCCAAAAGCCTTTATGCTTAC
WI-3687	67 A C ---	---	---	AAAGCGATGTTGAGATACCACATTCATGAAAAAGTAAAAACACACACAAAAATATGACATAAAA T[A/G]AAAAACTACTATAGTTTATGAAAAATGACTTCCAAAATTCAGAGAAAAAGTCACTTAAACAGG ATTCTCAATTCAATCCAGAAATCTCCTCTGTCTTAACTTTGACTGACACAG
WI-3735	72 T C AAAAC	CCTCAGTTATG TATCAAATGA	GGCTCACCAAT CATTTGTTTT	TCTAAAATGTGAAACCAAGAAATCCTGACACGACCTAACTGCCAGTCTCAGTTATGTATCAATGA AAAAC[T/C]ACACCGGTTCAATGAAAAACAATGATTGGTGAGCCATGTCCTTATTTAATGAAAAA GATCTTGGCAATTAATC

WI-1819	51 C T ---			<p>GGAAAGCAGGAAGCCAGGACAGCAAACTTTTGAAAAAGTCCTTTAGCAC[C/T]TTCGTGGATCCG  AATTTAGTGTGATTTGGCAGGCAATCGGGGTAAACATGTTCCAGTGTTCACGTTTAACTTGCACAGAAATTGC  CAGATTAGCGATTGTTGACTTGTCCAAATTAATGAAATGTGAAAAAAGGGTGGTAACTGTT  AAGCCTGCTGCAATGTTTAGACACGAGGGTGGGGTGGGAGGTGGAATACC</p>
WI-3746	116 G A ---			<p>GGCCTATTACATGACACTGGGCCAAGATCTTGCTTCCCCTTCTTTCAATAGATAGACTAACTAGAAA  ACTGCCCTGGCCAGGAAGATGGTTGCTTTCATCATCTCTGCTCTG[C/G]A/GCCCCAGGATAAAGCA  GGCA</p>
WI-3867	49 T C CAA	ACAGTCATTT AGTCTTCTGA	TAAGATAACC ATACTAGGTAC ATCCG	<p>AGCAATGAGTTAACTCCTTACATGAACAGTCATTTAGTCTTCTGACAA[T/C]CGGATGTACCTAGT  ATGGTTATCTTATCTGACAGACAAGGACACTGTGACACAGAGATTGTTACTTGAACAAGACACAGT  CATTAAGTGGAGAGCCAGCAATCTAATCAGGCTCAGTGATCTGCCAAACCCCTTCTGCTATAG  CATC</p>
WI-3898	25 A C G	TGACCAATGTC TTTAGAAGCA	TCGTGGGTGTC CTCTCC	<p>CAATGACCAATGTCTTTAGAAGCAG[A/C]GGAGAGGACACCCGACGACACACAGGAAGGAGTGAG  GTGAAGATGAAGCAGTGTACGCAGCCACAAGGTGAGGAAGAGCAAGGGTTGCTGGCCACT</p>
WI-3901	114 A G ---		---	<p>GGACCAATTGTCCCTCAGAAGTACATTCAAGCCCTGGACGGTGTCTCCTAACACTGTGACCTCAGGCA  AGTCATGTCTGCTTCCCTGAACCTCGGCTTCCCTACCTGACAAGTGG[A/G]TATCATGTGCTACACTGC  AGTGTTTATAATGCTGCAT</p>
WI-3914	99 C T GC	TGATTCTTCTC AAGACTCACA	TCTAGAAGCAA TGAAGGATGG	<p>CTGAGGAGATTGATGCTACTTTTACCTGAGGAAACTTTTATTACCTCCCCTGAGTTTGTTCCTTGC  GACATTGCTGATTCCTCAAGACTCACAGC[C/T]ACCATCCTTCAATGCTTCTAGACCTATAACTAG  ACTCAAGTCCCAGCAGGCCCTTAAAGGTAAGGTACAAAGTGTGACCCCATGGGAGGTATGTTACGCTA  CAAAAGAG</p>
WI-4019	33 G A A	CCAAGAGCGT CCTATGAATC	AACAGCAATA ACAGGAACAA ATG	<p>CCACTCCCAGGCCAAGAGCGTCTCTATGAATCAT[G/A]CATTTGTCCTGTTATTGCTGTTACACAGAT  GGCAACTCTGCAAAGGGAGGGGTACAAAGTGAATTTTAGATGCTGCAGGAGACGAAGGGTC</p>
WI-4091	84 A T	TTGAGGTCCTA GTCAATGCAATG	TGAGTTCCTAT TAAGTGACAAT ATTGTT	<p>TAATTCACATTGCTCTTTTGTGCAATTTATTGCTTCTTATGTAACACAATCACCACATTGAGG  TCTTAGTCATTGCAATG[A/T]TGATAACAATATTGTCACTTAATAGGAACCTCAAGCATAGTTATGTTGT  ACATTTATTGCTAACAGCAG</p>
WI-4160	117 A G	CCTATAATTTA GCAACAATAT	TGCAGGTAGAA TTTTCTAATAT AGCC	<p>TCCTCTTCTGTAATAGGAAGTCTGATTAGATGCCCTTTTGGGTTAGTTGGCTTCTAAGATGGTAATT  ATCTGTCCAAAGTTTTTGTTCCTATAATTTAGCAACAATATCAACAGAA[A/G]GGCTATATTAGAAA  ATTCTACCTGCATCCCCCTGGATCTGAACGTTCTTCATGATACT</p>
WI-4168	32 A G AACA	GGTGAGAGTC AAATTGATAC	ATTGCCAAACA GATTTTCAGA	<p>CGTTGCTGGTGAGAGTCAAATTTGATACAAACA[A/G]TCTGAAAAATCTGTTTGGCAATCTATTAAAGG  CAAAATATACCAGCAGTGTGGTCTAGCAATTTTACCTGCTGGGCATTACCTAACATAAATGAT</p>

WI-4177	68 T C	TGAATAAGCA CGTATTAAATT TACCTA	AAGGCAGCAA ATCATGATG	ATGCCTGGGATATACCTTCCAAATGACTAGTATGAATAAGCAGTATTAATTTACCTATTATTT AT/C/CJCATCATGATTGCTGCCCTCTTCCAAATTTACTACAAATTTGTTATGTCACATGAGGCACATG ATCCCATTAACCCAAATAG
WI-4199	51 A C	CTCCCCAAGTT AGTCAATATA AAAA	ATATGTTGATT AGGTATAACA ATATGTGTG	GCCATGAGCAGCAGAGGCTGAAACCACCTCCCCAAGTTAGTCAATATAAAAAA[A/C]CACACATATTG TTATACCTAATCAACATATAAATGTTATAGATTAAACAGTCCACAGCAACAA
WI-5163	24 C T	CTGTCACTGGT CTGCCCTGT	AAAGGAACAC AGGAACAGAC C	TTCTGCTGTCACTGGTCTGCCCTGT/C/JGGTCTGTCTCTTCCCTGTCTTCAATGTTCAACTGCTTGAT CTGTGCCCCACTAAGGTATCAGGTTTATATGGGCACAGGATGAGGGCTTTGTAGACCAGAGTTTCTT GGAAATTGCAACATTTGGGCAT
WI-4250b	117 A G	---	---	TAAGTGCATTAACTGTACAAGTCCACAAATACCTCTTCCACCAAGTGTAAAGCAGTTTTTAATAACA GGTTCAATATGAGTCTTGTGAAACAGGGGTGGGAAGGATCCTGTAAAGG[A/G]TAAATATTGTTTT CCATAATATTGAAGATGTG
WI-4250a	94 G T	TCAATATGAG TCTTGTAAC AGG	CTTTTACAGGA TCTTCCAC	TAAGTGCATTAACTGTACAAGTCCACAAATACCTCTTCCACCAAGTGTAAAGCAGTTTTTAATAACA GGTTCAATATGAGTCTTGTGAAACAGG[G/T]GTGGGAAGGATCCTGTAAAGGATAAATATTGTTTT CCATAATATTGAAGATGTG
WI-4255	68 G C	TGCTCCCCCAT CACCT	GGCTACTTCA AGTTGTGAAG G	TAAATGCTCTGGGAGATAATAGAAAGTCCCATCCCTCTGATACCTTGGTTGCTCCCCCATCACCT [G/C]CCTTACACAACTTGAAGTAGGCCCATCCAAACACTGGTCAGAGAGTAATACTGTGCAG
WI-4256	57 C T	---	---	ACAGCCTCTTCAAATGGCACAATCAAAGCACCAGTAAAGCAGAGGCAAAATCTGG[C/T]CTCAC CATTTGAAAAGTCTTCTGAAGGATAAGGGAGTGAATGACTGCTAGAGAGAAATGATTGGCCTT
WI-4325b	71 C T	---	---	AGTTCACTGCCTAGATGAGTAGACCATGTTGCTTTGTTAAATGTACATGGCAGGACCCGAAATGG GATG[C/T]TACTATAGATAATCTTTTTTAAATGACTCTTCTTGGTCTCTTCAAGATATCACCCAGCCAC CCAGGACACTGCCATATCT
WI-4325a	58 C T	---	---	AGTTCACTGCCTAGATGAGTAGACCATGTTGCTTTGTTAAATGTACATGGCAGGAC[C/T]GGAAA TGGGATGCTACTATAGATAATCTTTTTTAAATGACTCTTCTTGGTCTCTTCAAGATATCACCCAGCCAC CCAGGACACTGCCATATCT
WI-4347	158 A G	---	---	TGGGCAGAAAGTCGGGTATGGCAAGTCAGGGTGGTTAACTTGGATGCCACTTCTGCCTGTCACTTCT CTAGACTCTTGACCCCTGCAGGAGGATCCCTGGCCTCTGAGTTTATCATCTCCACCTCCAGCCAG GGCCCTGTATCTGTTTCAGGCC[C/A/G]GAATCTCAGGCTCACAACTGTGGGAGGTAGGAATGACGA G
WI-1936	117 T C	---	---	CCAGTCTAGGCTGCAAGGACTTCAATTTCTGGGGCAAGTCTGGTGTGTGTAGGGTCAGAGGCAGCG ACCTGAGGGACACACAAACAGTGGGACACCCAGGGGTACTTGTATCACCTT/CJCTCCCGCAACCCCA AGCAGCACAGCTTGACGCTCCAGGAAAGACTCCTTACTTCCACTTGAGAAAAGGAGAGGGAAGAGA AAAGAGGACTTTGACACACAACTTGGGA



WI-5204	54 C T ---			---	TAGATTTTGATTGATGACAATAGGGAAGCCTTTGTTAAATGGGTTTGAAGAA[C/T]GAAGAAAA TGGAAAGGGAAGAAATTGACAGAAACCAAGAGAGTGTGAGGGCGAGCAAAATCCCGATTTGACTGGA ATATAGAGTGATGTCAGGGTIG
WI-5215	70 A G CTCAAAA	GGACCTTAAT ATTTAACAGA	AGATAATTTTG TAAAGATAGTT TTGCG	AGATAATTTTG TAAAGATAGTT TTGCG	TTTTCCCTTATTTATTTAGGAAGCAAAATGTTTCATACAGGACCTTAATATTTAACAGACTCAAAAA TAT[A/G]GCGAAACTATCTTTACAAAATATCTCCATAGCAAGTAGACATTTTAGCACATTTTCTCT GTAGTCAAGGTTTTAAAGGCCAAATGAAGTTGACTAAAGACAAAT
WI-4448	112 T G ATATAA	TTGTATCAAA GAGATGGGGT	AATTAAGAA ATCTTTACATG GTTCTTT	AATTAAGAA ATCTTTACATG GTTCTTT	CCCTGAAATGTGCTTTGCTTCTCTCCAACTCTCTAGGGAACTTTTCCATGTCAGGTGAAGGTTTTGA AGAGTACTTTAATTAACCTGTATCAAGAGATGGGGTATATAAT[G/AAAGAACCATGTAAAGATTT CTTTAATTAGTGAATTTTCATCAGGGCTCTTCCACTGTCTATCAGTAAA
WI-4456	49 C T TATAGTTCC	AGTTGAATTA TTCAGAAAAAT	TTTCTGTTAT GCATGAACITG	TTTCTGTTAT GCATGAACITG	ACACATTTCAATTTGCTTTAAGTTGAATTAATTCAGAAAAATATAGTTCC[C/T]CAAGTTTCATGCATAA CAGGAACACCCAGGTTGGGCAATTTGATTGAATGT
WI-4461	49 A G CCTTCC	TCACTGTTATT TTAAAAATTAT	TTTGACCTTTC ACCAATTTCA	TTTGACCTTTC ACCAATTTCA	CTGAAACTAATGAGGTGCTAAATCACTGTTATTTAAAAATATCCTTCC[A/G]TGAAATTTGGTGAAA GGTCAAGAATGAAATTCCTTACCTTTTAGATTTCTGGAAATTTATTTGGGATGATAATGCAATGGGC
WI-4465b	75 G A ---		---	---	CTACTGGATTTTACTTTGCTCAAGCCAGACAACACGAAAGT[A/G]TATAAGAAAAACAGTTAGTAAT TCACCTTT[G/A]TATTTCTCTTCTACCTCAGGGAATC
WI-4465a	41 A G ACACGAAAGT	AAGCCAGACA ATGAATGCCA	GGTGAAGATT ACTAACTGTTT TCCTT	GGTGAAGATT ACTAACTGTTT TCCTT	CTACTGGATTTTACTTTGCTCAAGCCAGACAACACGAAAGT[A/G]TATAAGAAAAACAGTTAGTAAT CTTTCACCTTTGTATTCTCTTCTTCTACCTCAGGGAATC
WI-1949b	160 T C TAATC	GAGTGAATAA ATGAATGCCA	TGAGAGGTGGG GACAAAAA	TGAGAGGTGGG GACAAAAA	GGGGTTAGGACCTCGAGATCTTTTCAGAAAGCACAATTCAAACCATAATGGCAGTGCACAGGTAACCA GTGGTGAGATGCTCTGAGTTCAAGGCTGCTGACATGGTCAATGGCTGAATATATGTTGAAGAAATAAA GGAGTGAATAAATGAATGCCATAATC[T/C]GTGTTTTTTGTCCCCACCTCTCACACCTTTCCCTGG CACA
WI-1949a	86 T G ATGCTCTGAGT	CAGTGGTGAG	CCATGTCAGCA GCCITG	CCATGTCAGCA GCCITG	GGGGTTAGGACCTCGAGATCTTTTCAGAAAGCACAATTCAAACCATAATGGCAGTGCACAGGTAACCA GTGGTGAGATGCTCTGAGTT[G/CAAGGCTGCTGACATGGTCAATGGCTGAATATATGTTGAAGAAAT AAAGGAGTGAATAAATGAATGCCATAATCTCTGTGTTTTTTGTCCCCACCTCTCACACCTTTCCCTGG CACA
WI-4529	64 T C AAGATG	CCAAGTAAGT CTATCATCTG	TTCTAAAAATA ACACTTCTGA AAAA	TTCTAAAAATA ACACTTCTGA AAAA	TGAGAGAGTTTTTGGATTATTCATCCTCTGCAACACTCCAAAGTAAGTCTATCATTTCTGAAGATG[T/C] GAGTTCTCTTTTATATCCTATGATTATTTTTCAGGAAGTGTTATTTTGAAGATATAAACTCCTGGGT CCCATCCAGGTCTAGGGTCAATGGCATCCATGGGTGCTGGACAAGATGGGCCCTTAGGATCATTTT

WI-4540	110 A G	GCACATGTGG CATCC	GACAATGCAGC CATGCA	AGCTTTTCCTTTCTTAAAAATGGTGCCATAGTACTGGCTTCTGTGTGTCATCAGGAAGCAAGCCTAT TGCTCGGTAAACAGTACTTTGCAATAAGCACCATGTGGCATCC[A/G]TGCATGGCTGCATTGTCCAGTC AAATGAGACAACCTCCTAT
WI-4582	226 T C	---	---	AGCAAGCATCTGGCAAGCCTCGGTGACCAGAACATTAAATCACCACCAACACCACCTGCTGCCAAATGT CCATGTTAATGCAATTATAGAACTCCAGTAGCATTAAGGCCAGTTTAACTTATTCCTGTACACA AATAACTTTATGGGAGACAGCATTTGTAATTCAAATCAATCAATGAATGACTCGGTTTGGCTGTACAAGCAT AAACAGAAGCCTTGCAAAATATGGTT[C/C]CCTCCTTGCTAGAAACCATTTGAT
WI-1965	105 G C	AG	GAATGGATGGG TCATCTCTCT	CAAAGGTTAGTTTAACTTGGGGGCAACACAAAAAGTTATGAGTACTCAATAACCTATGTTCAAGGG TAACCAACACCTTTTGGCATTGAGGAAGTGTAAAG[G/C]JAGAGAGATGACCCATCCATTCCTGG GCTTCTTATATGACACCATACTATTCACACAGATGTGGAGTCATTTATTTGGTTGGTGTATGACAGT CATGG
WI-5248b	99 C T	TTG	AGAAAAAGAG AAGAAGGGAA AAA	TGTTTAAACCACATACAGTTTGTGCTGCTACGTTGTTAGAGCAACCCAGAAAAATTAACAGCCTAC CATTTTCACTGTTTCTATTGACCGTACTTG[C/T]TCTTTTCTTTTCCCTTCTCTCTTTTCTG CCCTCTTTTAACTATT
WI-5248a	38 G C	CTACGTTGT	TTTTAAATTTTC TGGGGTTGCT	TGTTTAAACCACATACAGTTTGTGCTGCTACGTTGTTA[G/C]JAGCAACCCAGAAAAATTAACAGGCC TACCATTTTCACTGTTTCTATTGACCGTACTTGCTCTTTTCTTTTCCCTTCTCTCTTTTCTG CCCTCTTTTAACTATT
WI-4596	69 T A	AGCACTGGA	CAGGAGATGGG CCTAATAATG	CATTGGTGGTCCAACTTCTCGGTGACATTACTCTGTGACTTTGCTCTGAAGCAGAAAGCACTGTGA C[T/A]CATTTATTAGGCCCATCTCCTGCTGAAGCCTGCCACAGCAATTTGTACATATGGCATTGGG ACATACTCTGAGCCCATCACTATTGACAAGATTCTCCTTTTAAACAA
WI-5252	119 A C	---	---	GAAATAGGGCAAAATTAAGACTTCAATAATTAGAAAGCTTGGGAAAGGATTTGTGATGATCATTTG AATCTGTTTAAATACAGAAATTAATACTGAATACCTGTGTGAATCATTTGCTTT[A/C]TACCATGTACA TATTATATGAATTAACAATGTAAAAATAGTATGACTAAGAAATATTGGGCCCT
WI-4606	61 A G	CT	TTAGGTGCTTA AGTTGTCTACT TGG	TGCAAAAAAGGAAAAATGATAACCAGGACTGTTGTTCAAGCAATGCTAGAAAAATATGCCTA[A/G]C CAAGTAGACAACCTAAGCACCTAAGGCAGAAATGAAAGTTTCTCTTGTCAATTAAGTCTCTATTCA ATTACCATTTATCGGGTAATTAACACTGGAAGTAATGCCAGGCTAATTTGATAGATTAGATAAT TACACGCTTTGCTATGCT
WI-5257	77 C A	GCAAGAGG	CCAGGGGCAGA TGAAAG	CAATGAGAAGTTACCAGATCGGGGCAAAATTAAGCATATGAAATACCAAGTGTGGCAGAGGCATG AAGCAAAAGAGG[C/A]CTTTTCATCTGCCCTTGGTGGGTTTTTTCAGTAAGTCAACATGCTTTTGCCTCC CGGATGAAAAGATACCTTCTATGACTCAGCAATTCACCTCCTAGGTATGCACCCCTAAACATGGGTG GCAAAAT
WI-4649	50 C T	TTCCGAATG	TGACTAGGTG TACTTACAAGA AATCATC	TCACTGTTTAGAAATTTCTTCTCTCAGTGAGACCATTCTTCCGAATG[C/T]GATGATTTCTTGTA AGTACACCTAGTACATCTATGAGCACACAAATTAACAAGTACTTGCTACCTGAATTTGATTTTTTAA AAATCCTCCCAATATTG

WI-4650	148	A G G T C T T	GCACAAAGAA AGTATAAGTT	CTGAAGTGTTA AACTGGATTGG G	AAC TGTGTGGTATGTA TTTGTTGTGTA TTTCTGGAGAGTCAGTTACTCTCACTAGATCATAAAGGG GACTTGGGAACCAAAAGTATCTCAAGACATTTAATCCTAGAAGCACAAAGAAAGTATAAGTTGTCTC TTATAITGCTTTT[A/G]CCAAATCCAGTTTAAACACTTCAGTAACGTT
WI-4677	82	T C A A A	TCCAAAAGTG ATTAGGTGAA	TTTCAACAGTG TCATTATTCAA CTT	AATTCAGATTTTGAACATACGTCGACATTTTGGAAAAAATTTGCCAAAAATGTCAAAAAGTGATTAGGTGAAAAAAT GAGTTGAAATAAATG[T/C]AAGTTGAATAATGACACTGTTGAAAAATGATGAATCTGCTTTCAATTCA CATGGAAGGAGACTAGAACACAGCAGGTTTATAGGGGAATACAT
WI-4698	135	C G ---		---	ATGATGCTATCATGAGGAATCTGTAGAAAAATTTTACCTGGCAATTTGATTCAATAAAGTTTGTCC TCACCTGGGAAACTGCTTATCTTGATGTCAGTGACATTTCTTTCTTTGACGGAAGAAAACTTCAA[ C/G]TCGAGAAGGCTTAGATTATATCGCTGAAGCCCATCTG
WI-4722	88	G A A C A C C A C A C	TGCACTATGG AACACCCACAC	AATATGGAATC TGCAATTCAGTT G	CTTCCCATCTGCCAGTTAGATGACTGCCTCTCCACCAGCCTAGAAAAAGATGGGAGATTTATTTTC TGCACATATGGAACACCCACAC[G/A]CAACTGAATGCAGATTCATATTGAATACTGGGAAATCAGTGA AAG
WI-2020	145	C A ---		---	GCCACAGTAAAGAGGAAAAATGGAGCCATGTAAACAGAGGAGAGCTTTCTGAAGATCAGTGTATTGTCA TAAAGGTCAGTAAATCACCTTTGATGTTGAGATTTTCAAGAACGTAATTTTATGAGTAACCATGGG TCAACTATGAT[C/A]CCAAAAACAGCAGTGTGTCTAAAAAATATGATAGTTTCTTCTCTCTGTCACCC GCAATGAAAAAGGAGTT
WI-2028	176	T C C T G T C T A T C	TGTTACGTTT CCTGTCATC	GGTTGAAACT CAAAATTACCTA GAA	GACTACAGCGCACAGACAGGCAATGTGTGGCTTGCACAGGTGTTGGTTTGTGTTTAAAGTTAGATT TGAATCCTTTAAAGAAAGAAAGTGCGCTCTTCAGTTTACTACAGACATCATCTCCTGTTCTCTTG CACCCAGTCCACTTCACCTGTTTACGTTCCCTGTCTCATC[T/C]TTCTAGGTAATTTGAGTTTCCAAACC TGTTGG
WI-2033	183	T C A	GGGTGCTAGA ACTAATCCCTC	CAGTGGTTCCA CGTTCTCC	ATGTGTATGAGCTCCACATTCGCAGATTCACCAACTATGGATAGAAAAATATAGTATTCACAGATGG GCAGCCCAAGGATCAGAGGGCTAATTTTAAATTTTCCAAGTTATACAGGACCAGTGTGGAAATTTT AGCATTTCTGGGTTTGGCATCCATCAGGGTGCTAGAACTAATCCCTCA[T/C]GGAGAACGTTGGAACC ACTGATATACCAAT
WI-4745	131	T C ---		---	TTATGGATACATGTTTTCTGGTGAAGGACAAAGAGTTGAAGCAAAAGGACAAAGGAGATCAACTGGG TAGAATAACTCATCGATCCACAGGCCTCCTCCACCATTTCTCCATCCTACTTTCTACTCTGA[T/C] AGGCAGACTTATATGGAAAAAAGGGA
WI-2034	150	T C C A A G G A C	CCACAGTGCA CCAAGGAC	GGGTAAAGAT AGAGTGCAGGT CC	CCACGACTATGCTTCAGAGTCCCTGGTACTGACAGAGAAGGCTTTGAGGACCATGTGGCGCCCAAGA CCTCCTTCTGGGTTTCAGTGAAGAACGATGAACCTCCTTCATCTTCTACAGCAGCTGGACTTCACCA CAGTGCACCAAGGAC[T/C]GGACCTGCACCTCTATCTTTACCCCTCCGACACCCAGATGCTGAGATGCC ACACTCTGAGTG

WI-2038	155	C T	ATTAA	TGTGTTTAA GTGTGAAGT	ATTCCTCTTG AAAGAAACAT CA	TCAGGTGACAAAGAAAGTCACATTTCTTCAATCACTCACCATTGTCTGTATTGTCTCTTGCAGTGT ATCCAAAGGATGTCACATTTTGGAACTCTGTAGATCAGAAAAAACTGTGCTTTAAAGTGTGTAAGTATTA ATTAGATTCTATTTTGATA[C/T]GTGATGTTCTTTCAAGAGGAAAATTTGTGTAAGAGGATTCCCAATT TGCATTTCACATTGGC
WI-4782	113	C T	AATGC	GATGCAGAAG ATAACTAGAA	GAACCTCTCTG GTTATTTTCT GTTG	TCATTGACTTTTTAGAGTCTCTCAGTCTTTATGTCTATTCTTTAGGAAAAAACTAGGCTAGGAGAA CACAAATTCAGGTTCTCTCCAGATGAGAAGATAACTAGAAAATGC[C/T]GAACAGAAAAATAACCA GAAGAGTTCATTATGTTTCTTCCAGAACGATTAC
WI-4788	65	A G	TCC	GCATAGAATC ATCTTGCTAAG	GGATAAAAT AAAAATTTGGC ATAA	AGGAGAGTTTGGCTCTTTCCGGACTCTTGGAAATCAGTGCATAGAAATCATCTTGTAAAGTCC[C/G] JTGAaaaaaaattatGCCAAAAATTTAAATTTATCCAACTTTAAGTCGAGATTATAATTGATATTT AAAAAACTATATTGAGTCTTTCTAAAAAGATGGCGTATCACTCTA
WI-5300	38	T C	CACTTCATC	TCCAGAGAC	CTACTCTTTCT ATTCATAATC CAAAAA	CTTACTTCCAAAGTGTTTCCAGAGACCCTTCTTCTTCTTGGATTATGAAATAGAAAAGAGT AGGTGTTATTATTCCTCTTTTACCAAGGTGAAATTTGAGGCTCAGAGACAAGGTAGATGATGAGCCCCA AGGTCAGTGACAGAGCCA
WI-4818b	121	G T	GCCCTGTT	TGATAATGGG	CCCTCCTTTTA TATGTATGCCA GA	TATAATGTTTGTCCATAGTTGCCATAGACTAGGTTATGTCCACACATGAATAACAATCTTATATA ATAATTTATTCAAAGAAAGGAAAAATATACATATGGGGTGATAATGGGCCCTGT[G/T]CTCTGGCATA CATATAAAAGGAAGGCTAA
WI-4818a	43	A G C		TTGCCATAGAC TAGGTTATGTC	CATATGTATAT TTCCCTCTTG AATAAAT	TATAATGTTTGTCCATAGTTGCCATAGACTAGGTTATGTCC[C/G]CACATGAATAACAATCTTAT ATAATAATTTATTCAAAGAAAGGAAAAATATACATATGGGGTGATAATGGGCCCTGTGCTCTGGCATA CATATAAAAGGAAGGCTAA
WI-5317	139	T C	GTAGCAGGT	TTCCATTTCTG C	GATGCAAGA AGAAATGAGTC C	TTTTCCATTTGTTTGATTCTTTTGTCTGAGCCCTTAGATCTCCTTTAAATTAATAGCAAGGTTAAT AATATAATAATATGATGTATATATACAAATTTCAACTCAACAGGAATTCCTATTTCTGGTAGCAGGT ATA[C/G]GAGCTCAATTTCTTTGTCATCTATTTCTAGGTTATTTGCAGCCCCGAGATCTACCCAGG
WI-4888	56	G A	AAAGATAACA	GCAAGATATA AAGATTAGA	CAATCCACTA CCTCATTTATT CA	AAATGAGTAACCCAAAGTTACTCGGCAAGATATAAAGATTAAAGAAAGATAACAAGA[G/A]ATGAAT AAATGAGGTAGTGGAAATTTGCTGATAACTGGAGTAGTGCTT
WI-5328	44	A G	---	---	---	AACATTTTTTAAACATGCTACATTTACAACACTGAAAAGACAG[A/G]AAAAAAAAGAAATATTTTG CCTCAAAAAGCTCTTAAGAGATTATGTAAATAAAGAAAAAATATGAATCAGAAAAAGGAAAAAAT AGAAACACGTGATACTGGAAAGGAG
WI-4897	93	A G	---	---	---	GCCTTTTGTAGTTTAAAGTCTTTTGTAGTGTCCTTTTTTTTTCCCCCACTAGGTACTCTCGGCCCAAT CCCCAAAAGAAAAAAGCGCTGG[A/G]GATAAACACATCTTC
WI-5345	29	G A	---	---	---	CCCTGCTATAGGTCAGTTTAAAAATCCT[G/A]CCTGCTATGGTTGCTTGTGAAGCCACATCCACT GAGGTATATTCTGTCTGCAATTTCTATATCACTCAGCTTTCAGATCCACTCCATCAACTTGCAG

WI-5370	143 T	C	AATAAGATGG TACCTTAACCTA CAGAGAAATTC AAA	CAAAGTTGGTA CAGAGAAATTC AAA	TGCATGTTACTCTCTGGAAATCATAAAGGGGATCTGAGAGCCTACAGTATATGGCAACATTAACCAAT CTTTTGGAAATTTACCTGTATCCCATCATGGTTTCATTTGCAAAAAATAAGATGGTACCTTAACCTA ATAAAACAATTC/TCTTGGAAATCTCTGTACCAACTTTGCTTTTC GATCTCCTTCATCCCTCTCCAGAGAGGAGAGAGGAAACACAAGAAACGCCTGGTGCAGAGCC CCAAATTCCTACTTCATGGATGTGAAATGCCAGGTGAGGAGACGGCTTGCCTAGTGGGAAAGCAC TGGACCTCAACAGTTGGAAATGTTGTAGTTAGTGTAGTGTCTCGTATCCTTGAAGCTGTGCAGCAGCTT CAGTTCTTCGCCGTGTGGAAATATTTCCCTGATACTCTTAAAATTTGAATG GATCTCCTTCATCCCTCTCCAGAGAGGAGAGAGGAAACACAAGAAACGCCTGGTGCAGAGCC CCAAATTCCTACTTCATGGATGTGAAATGCCAGGTGAGGAGACGGCTTGCCTAGTGGGAAAGCAC TGGACCTCAACAGTTGGAAATGTTGTAGTTAGTGTAGTGTCTCGTATCCTTGAAGCTGTGCAGCAGCTT CAGTTCTTCGCCGTGTGGAAATATTTCCCTGATACTCTTAAAATTTGAATG GGAGGAATTCAGGGTGAATGGACTGCTCCCGTCCCTGAGTTCAGTCTACTCAGCCTGAGGTTGCAG ACTGGTCTGAAGGTGACAGGTGCCCTCTGTGCCCTATTCAGCAATCCCTACTGGTATGTATCAGGAT AGAGGTGAATCAAGCTGATATTTGCAACTTCTCAGTTTATTTCTAACTTTAATGATCTCTGTGACTT TTATACTAGCTTTAAGAGGTTTTCATTCAGTGTGCTACAGCATCTGATAG GGAGGAATTCAGGGTGAATGGACTGCTCCCGTCCCTGAGTTCAGTCTACTCAGCCTGAGGTTGCAG ACTGGTCTGAAGGTGACAGGTGCCCTCTGTGCCCTATTCAGCAATCCCTACTGGTATGTATCAGGAT AGAGGTGAATCAAGCTGATATTTGCAACTTCTCAGTTTATTTCTAACTTTAATGATCTCTGTGACTT TTATACTAGCTTTAAGAGGTTTTCATTCAGTGTGCTACAGCATCTGATAG GGAGGAATTCAGGGTGAATGGACTGCTCCCGTCCCTGAGTTCAGTCTACTCAGCCTGAGGTTGCAG ACTGGTCTGAAGGTGACAGGTGCCCTCTGTGCCCTATTCAGCAATCCCTACTGGTATGTATCAGGAT AGAGGTGAATCAAGCTGATATTTGCAACTTCTCAGTTTATTTCTAACTTTAATGATCTCTGTGACTT CTTTTATACTAGCTTTAAGAGGTTTTCATTCAGTGTGCTACAGCATCTGATAG TATAGTATTTAACGAAGCCTAGAGCAGCGCTGTGGGTGGTGAATTTGGTTC/AJAGCATATCTTAGGT ATATAATAACTTTGAAGCCATAACTTTTAACTGGAGTGTTGATTTCTTTTTTAAATTTTATTTGGGA GGGTTTGGATTTTAACTTTTTTAACTGTTTAAATATTAAGTTTTTGTAAAAGGAAACCATCTCTG TGATTACCTCTCAATCTATTGT
WI-9711b	423 T	A	---	---	---
WI-9711a	390 C	A	---	---	---
WI-9702c	345 G	A	---	---	---
WI-9702b	344 C	T	---	---	---
WI-9702a	179 C	T	---	---	---
TGR- A003N21	49 C	A	---	---	---
TGR- A004V30	203 C	T	---	---	---

TIGR- A004W22	232 C A ---	---	GGATAAATCAGTACAAATAATGGGGACCTTAAACTGCTGTGATGCAGGAGTGGAGGGCTGGGCAGTG CCCGAGGCAGGGGAGGACAGTGGGACAAGGGATGCTCAGTGGTGAGCCACAGCCCTGGGCTCTGGA TGGGCATGGGAATGACCAGGTTCCACATCATGCACAGCAGGGGCTGTAGCTTGAGTCCAGACAG GCCTGCCACATTGGTGTGCCCCCGCCTA/C/A/CTGGAGATGTCCTAAAA
TIGR- A005D24 b	138 C T ---	---	CATAGAAAGGAGTCTTTGAGTATTGTACAGTTTTGAAAAATCTCTTTGAGATAATTGATTTTCATATTC TGTCCTTTCAACCTCCATTTACCTCTTGTCATTTCAACATCTTTATAGAGAAATAAAAACCCCAATTT CTC/TJTTTCAACATTTAGTTGATTATCATCTGGATTTTCACTCAAGATGCAGCTCCTAAGATTATT GTTATGTTAAATTCATAAACTCCTTACCCTTTAATAATTAAAGGAAACAAT
TIGR- A005D24 a	123 A G ---	---	CATAGAAAGGAGTCTTTGAGTATTGTACAGTTTTGAAAAATCTCTTTGAGATAATTGATTTTCATATTC TGTCCTTTCAACCTCCATTTACCTCTTGTCATTTCAACATCTTTATAGAGAAAT/GJAAAACCCAA TTTCTCTTCAACATTTAGTTGATTATCATCTGGATTTTCACTCAAGATGCAGCTCCTAAGATTATTG TTATGTTAAATTCATAAACTCCTTACCCTTTAATAATTAAAGGAAACAAT
U03735	74 C G ---	---	TGAGCTGAGCAGGAGTTCAGCCAGGCGCAGTGGAGGGGTCTGGGCCAGTGCACTTCCTGGGGCC GCATCC/C/GTTAGTTTCCACTGCCTCTGTGACGTGAGGCCATCTTCACTCTTTGAAGCGAGCAG TCAGCATCTTAGTAGTGGGTTCTGTCTGTGGATGACTTTGAGATTATCTTTGTTTCTGTTTGA GTTGTTCAAATGTTCTTTTAA
U39840b	42 T C ---	---	GGTTGCTGGCATAGCCATGCTGGTAGCAAGAGAGAAAAAAT/CJCAACAGCAAAACCAACCCACA CAAAACCAACCGTCAACAGCATAATAAAATCCAACTATTTTATTTTCACTTTTCATGCAACAACC TTGCCCCAGTGCAAAAGACTGTTACTTTATTATTGATTCAAAATTCATTGTGTATATTACTACAAA GACGGCCCCAAACCAATTTTTTTC
U39840	56 A C ---	---	GGTTGCTGGCATAGCCATGCTGGTAGCAAGAGAGAAAAAATCAACAGCAAAACCAAC/A/CJACCACA CAAAACCAACCGTCAACAGCATAATAAAATCCAACTATTTTATTTTCACTTTTCATGCAACAACC TTGCCCCAGTGCAAAAGACTGTTACTTTATTATTGATTCAAAATTCATTGTGTATATTACTACAAA GACGGCCCCAAACCAATTTTTTTC
WI-8997	41 G A CCCC	---	GTGGCCATCGATCTGGACCGTCCCCTGCCACTTGCTCCCG/GA/JTGAGCACTGCGTACAAACATCCA AAAGTTCAACAACACCAGAACTGTGTGCTCATGGT
WI-7008	180 A G ---	---	TATACCACTTCCATTTGATGGAATGCTGCTGTTTCATGACCAACTTTATGGCTAGATGGGTCAGAA AGCACCCAGTTTCATGATAGGAGTTTCAAGTTCATATGGTACTTGATGACCCAGAGTCAACATTCAG TTTCCACCAAAAGCCCCAGTAACAGGCCAAGAGCTGTCTCTCAAAAG/A/GJAGAGTAGTTATCTGCAGA AGATGGCAGGGCCTTGCTCCGAAAGCCTAGAGACCGCCACTGTGATTACCT
WI-9005	26 C T GGGATCT	CGAATTTGCTG	GGTCCCACGAATTTGCTGGGAATCT/C/JGTTTTTCTTTAAGACTTTTGGGACATGGTTTGACTCC CGAACATCAOCGACGGTCTCCTGTTTTTCTGGGTGG

WI-7593	46 G A ---		---	TTTTTTGCTCTGGACACCCACTGCTCCAGGATGAAAGGAGAG[G/A]AATGAGATCAGTTTGGGA CACTTCCTCTTGAAATATAAAGAATCAACAAGTTACAGTCATGTTGGGACTTCTTCTCTCTCCAA
WI-6962	78 A G ---		---	AGTGCATCTTGGGGAAAGGGCTCCAGTGTATCTGGACCAGTCCCTTCATTTTCAGGTGGGACTCTT GATCCAGAGA[G/G]ACAAAGCTCCTCAGTGAGCTGGTGATATAATCCAAGACAGAACCCAAAGTCTCC TGACTCTGGCCTCTATGCCCTATCTCTATCATAGATAACATCTCCACAGCCTCACTTTCATTTCCAC CTATTCTCTGAAATATTCCCTGAGAGAGAACAGAGATTAGATAAGA
WI-7059	43 C G	AAGGCACCCA GCCATC	GCTCCTCGCTG GGTCA	GCAGAGAAGAGAACCATGCCAGGGGAGAAGGCCACCGCCATC[G/G]TGACCCAGCGAGGAGGCCAA CTATCCCAAATATACCTGGTGAATATACCAAATTCGTCATCTCCAGAGGAAAAATAAGAAAAATAAA GATGAATTGTTGCAACTCTTAAAAAAA
WI-9063	53 A C TT	CACCTTCACTGA AAGACACCAT	TCTACTTTCTG CCCTTGGGT	AGCAGCCATCAGATGATCTGTTTTTACCACCTTCACTGAAAGACACCAATTTAT[A/C]TACCCCAAGGG CAGAAAGTAGAACTTACTATTCAATTAATGTTTGACACAATTTGGAATTGTC
WI-7079	293 T G ---		---	AAGGGGCATTGAGACTATAAAGCAGTAGACAATCCCCACATACCATCTGTAGAGTTGGAACGTGCATT CTTTAAAGTTTTATATGCATATATTTAGGGCTGCTAGACTTACTTCTATTTTCTTTTCCATTGCT TATCTTGAGCACAAAATGATAATCAATTATACATTTATACATCACTTTTGACTTTTCCAAAGCCC TTTTACAGCTCTGGCATTTCTCGCCTAGGCCTGTGAGGTAACCTGGAT
WI-9074	38 A G AAAAG	GGTAAAGTT CTTTTGTCTCT	GACAGATTTTT GACCTAGTTCC TT	TGGATGCCGAGGTAAAAGTTCTTTTGTCTCTAAAAGAA[G/A]AAGGAACTAGGTCAAAAATCTGTCC GTGACCTATCAGTTATTAATTTTTAAGGATGTTGCCACTGGCAATGTAACGTGT
WI-7104b	249 C T ---		---	GGAGTTTGCCCCCTCCTAAGGGAAGGAGATCTTTATCTTCTGGTTGGCTTGACCAGTCACGTTGGGA GAAAGAGAGAGTGCCAGGAGACCTTGAGGCAGCCGGTCTACTTTGGACTGAGAGAAGGGAGCC CCAGGCTGGAGCAGCATGAGGCCACGCAAGAAGGGCTTGGTTCTGAGGAAGCAGATGTTTCATGCT GTGAGGCCTTGACCAAGGTGGGGGCCACAGCACCGACCATCTTTG[C/T]
WI-7104	157 C A ---		---	GGAGTTTGCCCCCTCCTAAGGGAAGGAGATCTTTATCTTCTGGTTGGCTTGACCAGTCACGTTGGGA GAAAGAGAGAGTGCCAGGAGACCTTGAGGCAGCCGGTCTACTTTGGACTGAGAGAAGGGAGCC CCAGGCTGGAGCAGCATGAGGC[C/A]CAGCAAGAAGGGCTTGGTTCTGAGGAAGCAGATGTTTCAT GCTGTGAGGCCTTGACCAAGGTGGGGGCCACAGCACCGACCATCTTTGCT
WI-8974	34 C T AAGAACTCA	CCTGAGCCCTC AAGAACTCA	TGTAGGGCTGA GCTGGC	CATACATGAGAGCCCTGAGCCCTCAAGAACTCA[C/T]GCCAGCTCAGCCCTACACCAGTTTCCACC TGGAGTTTCATGCAAGGGCAAAAGGCAGTGCCATGCAAGCTGTTAA
WI-9161	61 C T CCTGGC	CCTAAGCATTG	GCTTACAGGAG AGACTAGACA GGAA	CTGTGAGGGTGACGTTAGCATTACCCCCAACCTCATTTTAGTTGCCTAAGCATTCCTGGC[C/T]TTC CTGTCTAGTCTCTCTGTGAAGCCAAAGAAATGAACATTCCA
WI-9014c	93 T C ---		---	CCCTGTTCCCATGCTGAOCTGTGTTTCTCTCCCACTCATCTTCTGTTCCAGAGAGTGGGGCTGGAT GTCTCCATCTGTCTCAACTT[A/T/C]GTGCACTGAGCTGCAACTTCT

WI-9014b	44 C T ---	---	---	CCCTGTTCCCATGCTGACCTGTGTTCTCTCCCAAGTCATCTTTC/TJTGTTCCAGAGAGGTGGGGCTG GATGCTCCATCTGTCTCAACTTTATGTGCACTGAGCTGCAACTTCT
WI-7023b	206 C A ---	---	---	TCTGAGAGAAATGACTTGTGGGAGACACCTGCAGATCCTCATGGTTGTGACAGACCCCTGCGTGCT CAGTGGCTTTAAGTGATCCCGCTGTGCTGACTTGTAGTGGATCAACATCTGCTCCTACGGGTCGCC TCTTTTGGCCCAAGTATTCATGGCAGGTTTGTGGACACCTACTAGCTTCCCTTCCCATTCACAC A/C/AJACACACATCTTGCTCTACCCAAAGCTGTGGCTGGCAGCACTAA
WI-7023a	56 A C ---	---	---	TCTGAGAGAAATGACTTGTGGGAGACACCTGCAGATCCTCATGGTTGTGACAG/AJ/CJCCCTGCGT GCTCAGTGCCCTTTAAGTGATCCCGCTGTGCTGACTTGTAGTGGATCAACATCTGCTCCTACGGGTC CCCTCTTTTGGCCCAAGTATTCATGGCAGGTTTGTGGACACCTACTAGCTTCCCTTCCCATTCAC CACACACACATCTTGCTCTACCCAAAGCTGTGGCTGGCAGCACTAA
WI-7093	54 C T ---	---	---	CTGAAATCCCTCTCTGCCCTGGCTGGATCCGGGGACCCCTTGGCCCTTCCCTTC/TJGGCTCCAGCC CTACAGACTTGTGTGACCTCAGGCCAGTGTCCGACCTCTCTGGGCCCTCAGTTTCCACAGCTATG AAACAGCTATCTCACAAGTTGTGAAGCAGAGAAAGCTGGAGGAAGCCGTGGGGCCCAAT GGGAGAGCTCTTGTTATTATTAATATTGTGGCCGCTGTTGTGTTGTTA
WI-9171	62 G A ---	CTAGACCCC ATTCTCTATT	---	ACATATCTGAAAAATGTTGAAAGCTAAGCCAGGAATAAAGAAAAAGTAGAGATAATAATCA[G/A] TTCTTACAACCGATGGTAATTAAGCTTGTATTCACAAGACTTCAATGC
WI-9174	47 T C T	CTAGACCCC TATAGACAGG ACTG	---	GTGTGAGACCATCATGTGCCAGTCTAGGACCCCATTCCTCTATTTA/CJ/CAGTCTGTCTCTATATA CCCTCTAGAAACAGAAAGCAATTTTAGGCAGCTATGGTCAAAATTGAG
WI-7753	52 A G GAAGAACAGA A	CCATGTTCCGA A	---	AAGCCAGATGCACATCCCTGGAAGGACATCCATGTTCCGAGAAGAACAGAT/GJ/ATCCCTGTATT TCAAGACCTCTGTGCATTTATTAAGCTGCCCTGCTCCACAGAACACAGCAATTCCTCAGGCTA AGCTGCCGGTTCTTAATCCATCCCTGCTAAGTTAATGTTGGGTAGAA
WI-9186	76 G A CGCA	CCACTTCTCCC T	---	AAAGAACTACAGAGGACGATGTCCAAAAACAAAAATGGCATCACCTGTCAAAAATGGAGTCCACT TCTCCCCGCA[G/A]ACCTAGGTGACAGACTTCCCTTTTCATCTT
WI-9193	94 G A CA	AGAAATTGT CTGCCCTAAAG	---	TTGGACAAACCTAGAAATTTTCCCTTTATGTATCTCTATCGATTGTGTAGCAATTGACAGAGAATAA CTCACAATATTGTCTGCCCTAAAGCA[G/A]TACCCCTCCCTACACACACCCCTGTCTCTC
WI-9015	48 C T ---	---	---	TTTGGATTGATATCGTGAATCCTCAGCCGAGAAATTTGGCTGGATTG/C/TJGCTTTGGTTAATACAT CTTTCCCTAAAGAAGATAAACACAAAAATCCATTCAGGTAGCTCGGCACCACTAAGAA
WI-7254	37 A G AGGAGCCAC	GGTCTGAGAG CATTAGGGA	---	GGAGCCAGGAGACAGCAGGGTCTGAGAGAGGAGCCAC/GJ/GTCCCTAATGACACCCACTCCTAGCC CTGAGGCTGTGCCCCCTCAGACTGGGGAAGTCCAAAGGAGGGAGGAGCCACTCCTCAATGC TCAATGGCTCCCTGAAATCAAGACAGG



WI-9231	32 GC	CAGTCCCCCA GATTGA	CAC TTGCCAC ACTCAGAC	GTGACCC TGTGAGGT CAGGTC CCCCAGATTGA[G/C]GTCTGAGTGTGGCAAGTGTGTCAAAGGGGC TGCCCCCAGGAGATGAGGCTGAGAGCAGGAGTTGAGGCCGAAGAAGTCA
WI-7836	120 T C C	CAAAATAACA ATGCAACGTT C	GCTCTCAGAAC CAAGATTAGA AATC	TTGTTTGGGAAATAGAGAGTTGAGATAAACACTCTCATTCAGTAGTTACTGAAAGAAAACCTCTGCTA GAATGATAAATGTCATGGTGGTCTATAACTCCAAATAAACAAATGCAACGTTCC[T/C]GATTTCTAAT CTTGGTTCTGAGAGCCATTGGTTTCAGTTGTAGCAATCCCATACCCAGCT
WI-7286	65 T C A	CAGCTTCAGCT TAAC TGACAG	AAACAATCTA ACCAGAAAGCT TTAA	TCCATTCC TTTTGGCCCTGCAGCATGTCATGCTCCAGAAATTCAGCTTCAGCTTAAC TGACAGATTC JGTTAAAGCTTTCTGGTAGATTGTTTTCAC TTGGTGATCATGTCTTTTCCATGTGTACCTGTAAATATT TTCCATCATATCTCAAAGTAAAGTCA
WI-7858	91 T G TAAAT	CTAAGCATGT ACGTGAATTTT	CCCAATTTTA TTAAAGTTTA CATCTAT	CAAA TCTTGAAATATCTCAAATGTTAATAACAATATGAATTTTCTCATGCATACTATTACTACT AAGCATGTACGTGAATTTTAAAT[T/G]TATAGATGTAAAC TTTTAATAAAAAATTTGGGTGTGG
WI-7860	50 C G ---	A CGTACCTCCAA ACATAATTGA AGTCTCGCAGA	---	GAAGATTAAAGGAGGGTGTCTGTGGTCTCTCCCTGCCCTCTCCCCA[C/A]GTGGGAGAGACC TGTGATTTGCCAAGTCCCTGGACCCCTGGACCAGCTACTGGGCTTATGGTTGGGGTGTAGGCAGG TGAGCGTAAGTGGGGAGGAAATGGTAAAGTCTACTCCAAACCTAGGTCTCTATGTCAGACCAG ACCTAGTGTCTCTAGGAGGGAACAGGAGACCTGGGGTCTCTGTGGAT
WI-9064	29 A G TTC	CGTACCTCCAA ACATAATTGA AGTCTCGCAGA	GC TTGAGTGA AGTCTCGCAGA	CAAGCGGTACCTCCAAACATAATTGATTC[A/G]TATCTCGAGACTTACACTCAAGCAATCCTGAGG AATACTGAGGAGGGCCTGGCTACTGTCTCTGCACTCTGCTGCTTTG
WI-7307	128 GT ---	---	---	CACACTGTCTGTTCTTCAGTGTCTGGAGGTCTCGCAGGTGAGGTGGGGTAAGCCGGGTTCCACA GGCCCCAGCCCTGGCAGGGGTCTGGCCCCCAGGTAGGCGGAGAGAGTCCCTCCCTCAQ[G/T]AACT GGAGGAGGGGACTCCAGGAATGGGAAATGTGACACCACTCTGAAGCCAGCTTGACCTCCAGT TTGCACAGGGATTGTCTGGGGCTGAGGGCCCTGTCCCAACCCCGCC
WI-9274	25 CT G	GAAATGTGAC TTCAC TTTGGT	CAGGTAGAATT TTCTGTCCATT G	GAGGAAATGTGACTTCAC TTTGGTG[C/T]CAATGGACAGAAAAATTCACCTGTGCTACATAGGAGAA GTTTGAATGCAC TTAATAGCTGGTTTTACACCTTGATTTGAGGTGAAA
WI-7313e	266 T C ---	---	---	AATTCCTTTTCTGGTAATCAGGCACATGATGAAC TTTGATTAGTAGGTCTGTGATTAAGTCTTAAAT TGTTTGCAGCTTTTATGTTTATATCATAGGTATAGGTGGACCTAAATCCCTTATCATATCTTTATT AATTCAGCCAGTGTATCCACCAGTTTTTTGTTTATGTTTTTAAGTAACCTATTATCTCTGGATTTCATG AAGGTGTAATATCGTTTTTGTAAACTGAATAGAATTGTATAGCGATGA
WI-7313c	256 CT ---	---	---	AATTCCTTTTCTGGTAATCAGGCACATGATGAAC TTTGATTAGTAGGTCTGTGATTAAGTCTTAAAT TGTTTGCAGCTTTTATGTTTATATCATAGGTATAGGTGGACCTAAATCCCTTATCATATCTTTATT AATTCAGCCAGTGTATCCACCAGTTTTTTGTTTATGTTTTTAAGTAACCTATTATCTCTGGATTTCATG AAGGTGTAATATCGTTTTTGTAAACTGAATAGAATTGTATAGCGATGA

WI-9281	68 G A ---	GCTAACACTTT TTAAACCCTG	CAATTTATTTG AAAGCTATTCA GACA	---	ACTGGTGGGAGACTGTGAGGATCCAGGATTCAGTATTCCTGGCCAGAGGGCCTTGCTGGCTACTGG [G/A]TGTTAGTTGCAGTCTGTGTGCTTCCCTCTCTTATGACTGTGTCCC
WI-7848	142 A G CTC	GTATATTACA ATGATCACCG	CCACACAGAAC TATTGTAAAC AA	---	TTCTGAAAATATAACAGCCATTGAGCTATTTAAACTTGTAATTTTTTAATTTACAAAAATATAA AATATGAAGACATAAACCCAGTTGCCATCTGCGTGACATAAACAATTAATGCTAACACTTTTTTAAA ACCGTCTC[A/G]TGCTGAATAGCTTCAAAATAAATGTGAAATGGT
WI-9304	70 G A ACTGA			AA	TCACGTTTGGTGCTTCTCAGATTTCTGAGGAAATGCTTTTGATTTGATATTAACAATGATCACCGACT GA[G/A]AATATTGTTTTACAATAGTTCTGTGGGGCTGTTTTTTTGT
WI-7933b	314 C A ---			---	TTACAGAAACTTGCCCTGTGCCTGTGTCCCTCCCATGCTAGGGGGGAGGGGCTTTTCTCTCTTTCC TACCTACCCCTTTTCTTGGCCAGGGCTCGTATCTACCTTTCTTGTCCCTGGCTGGCTGCAC CACAGAGGATTGCCCTTCTCTTTTCAGAGCTGGCCCTCGATGCCAAATAGCATTTAGTATTTTGCA AGAGGATTGCCCTTCTCTTTTCAGAGCTGGCCCTCGATGCCAAATAGCATTTAGTATTTTGCA AGTCTAAGGGACCATGGCTGCCCTGGCTGGGAGGAACCATAGCTCCCT
WI-7933	96 G C ---			---	TTACAGAAACTTGCCCTGTGCCTGTGTCCCTCCCATGCTAGGGGGGAGGGGCTTTTCTCTCTTTCC TACCTACCCCTTTTCTTGGCCAGGG[G/C]CCTGTATCTACCTTTCTTGTCCCTGGCTGGCTG CACAGAGGATTGCCCTTCTCTTTTCAGAGCTGGCCCTCGATGCCAAATAGCATTTAGTATTTTGCA CAAAGCTAAGGGACCATGGCTGCCCTGGCTGGGAGGAACCATAGCT
WI-7374	182 T A ---			---	CCCAGATGTGCCCATCACGTTTTTCTGAGGCTTTTGACTTTAGTAAATGCTTCCACTAAACTGAAA CCATGGTGAGAAAGTTGACTTTGTTAAATATTTGAAATGTAATGAAAGAAAGTACTGTATATTA AAAGTTGGTTTGAACCAACTTTCTAGCTGCTGTGAAGAATATATTGTT[A/C]AGAAAAACACAAGGCTT GAT
WI-9343	78 C T CCTTGCCA	CCAACAACAT CCTCTGCCA	AAATGAAACTT ACGTTTTGTG TG	---	GGTCTGCTCCTGCTACCTTGACCTTCCCTTCTCTCTGCTTCTCTCTCATCATCATCCCAACAACAT CCTCTGCCA[C/T]ACACAACAACAACGTAAGTTTCATTTGGGCAAA
WI-7386b	104 T A ---			---	CTATATGTGAGAGGCGTGATATCTGGATGGAAGTTGGGCTGGATGATCTCCAAAGTGCTTCAACTCT TAAAGACATCTTAATCCTGAATGTAACAATTTGTTA[T/A]GTGTTTAGAATCAGAAATTTGATTTTGA ACTTGAGTAATTCATCCTT
WI-9357	75 A G ---			---	AAGAAGGAGCTCAGTTACGGGTTTTAAACCTTCATGAAACCTGAAGAGTTCACTTTTTGTTATTAT GCTCTTA[A/G]TGATTACAGACTGATGCCAGACAACCTTTGGGAAGA
WI-9360	79 T C TTGG	CTTTAGAAAA TCTGCTTTAAC	CCTAGGGAACA CAATTAGAGGA A	---	TGAAGGGGTGTGGCATCTGTGTTCTGATGCTTACTACAATATGTGAACCCTACTTTAGAAAACTGTG CTTTAACTGGTT[C/A]TTCTCTAATTGTGTTCCCTAGGAAATGACTGTCCCAAG
WI-7423	107 T C GTTCC	TGCTGGGCTGT	GGTCCAGAAGA G	GOOG	TGCTCCCTGTCCCATCTGCAGTGGACCCAGCCACCCCTTTGAGGAGGTGGGTGAAGTGTCTCTT GGCAGGGATTGTGACACTGCATTTGCTGGGCTGTGTTCC[T/C]CGGGCTCTTCTGGACCTTGACCCGTG GATACCAGGCCATGTGCCATGGTATTTGGTCTCTGGGAGGGTGGTGAATAAAGGCATACTGTCT

WI-7424	131 T A	CAAGAGAGAG AGAGGAAAGA	TGCAAAAGAAA GAATGAAAAGTT G	CCAGGAGCACTAGAGAGGGGGAAGAGAGAGAAAGTTAGAGAAAAAAGCCACCGGAGGAAAGG AAAAAACATCGGCCAACCTAGAAACGTTTTCATTCGTCATTCGAAGAGAGAGAGAGGAAAGAAAAA TTA/JACAACTTTCATTCCTTTTCGCAGGTTTATAAACATTCACATA
X86400	118 A C	---	---	TCCTGCAAGAAAGTCTCAAGCCTTTTGAATTTTGCAATAAAGTACAGCTTTCATAGAGTGAA TTGGCTAGCTTAAATGGATCCATAAACTTTCTCTAATTTAAGTGAGA/JCJTCTTTTAAACACCT GTTAAATTAATGTAGCAGTCTGAGAATCTAAAAATTATGTACCACCTCGTTTATTTGTTTCATTCATCCA TCCCTTTTCCCATGAATATTCA
WI-8053	242 T A	---	---	GTGGCCACTACATGTTATAGAAACCATCATCTTGTACACAGCACAGTCTATGAATAAAAGGCTGAG TTATCACTAAGCAGGAGAAAAAGCATTAAAAAGTGTCCCATTTAAAGGGACITTTTATCAACCTAA TAACTCTAATTCGTGCTGACTTTTAAAGATCTAAGGTCAITTTAATACATGCTGAAAAAGGTCACA ATTAATCTTTGATCTTTTACTCACTGTAACTTATATAAT/JTTTCAGAAC
WI-6190	165 G A	---	---	TACACAATGAATTCGTTTTATTTGGGTATGCATCCACATTCAGCATTTAGTGGTCTGAACAGCAAG TGGAAAGACGCAGCAATTTGCCAGGAGGTCAAGCCCAATTCGGGGATCTGCTGTGCACACCCGG GTTCTTCTTAATCCCTGCTGAGGATCTTG/JA/JGAAGCAGCAGCAGCACCAAAACCAAGGCATGCA CCGGATTCAAGGTTCTTTTGTCCAGTTGTCCAGATTCCAAACTAGACCCCA
WI-6275	148 G C	---	---	AACAGTCACCACCAACCATGACAACTCGCCAGGCAAGGCTTGTCTCCCTCCCTCTTTCGGTCCC ATGTGCTAGTCAGCAAGGTGGGGAGGCACCGATGTAGCTTCGCCCAAGGGAGTATTACAGAGA GAGGCTTGGGAA/JC/JGGAAGGAAACCTGGACAGGCTTTTCAGCACTGAGAAATCACTTAAACTG ATTTGCTTTCAGTAACTGGTATGTCTGAA
WI-6421	41 G T	---	---	ACCAAGAGATCAGCTGTCTAACACAGCAGCTTTTGTATTG/J/JGGGCTTCTGAAAGAAACCTTGC TGACAGCTTCTCACTGACCTGCAGGACGGAACCGTACCTGAGAGGGGATGGGGCTCTCTCACAAA GAATATTTGGGGCAGAACCTTGAACTGGCCACAGGACATCCCAATATCCCTCTCTCTCAGGG CTCACCCCGACATCTCTCAGCCAAATGAAGGCTCTGAA
WI-6905	215 T A	---	---	GGGTGAGACGGGTTTATTGTGCACATTTACAGCGTCACAGCGTCTGGGCTGGCAGCGGCCATGCTC CTGTGGTCGGGCTGCTACAAGGGCGTTCACTTTCTTCCACACACTATGTACAGTCAGTGTCTCCAA GGTGATGGGCTACAGTGTGCTGATGAGTGTGTACACACATTTTACATAAATTACACAGACTC ATACATGAAAA/JA/JAGAGCCTAAGGCGCTGTATTTTATGAGAAAAA
WI-9420	202 G A	---	---	AACCTGTTTACAAAATAGGCTTTGCAAACTTCATTACTGAATGTAAAGTCAATGACTGTGTTT TAAAAATATGTACCAAGGAAATACAAATTGGATAATGATCATTTTTCATGCTCAGGAGAGAACAGCAG AGAAATAAAGGATACGCACAAGGTGCAAGGAAACCGGAACCCATTGTGTACACTGTCTTCACACAG JG/JGCACTTCTTCTCACCTTAAGTGCAGCTGTGCAAGATGCCTCAGTGTG

WI-9448	184	G A ---	---	TGGGGCTGCTTTAGACTTCATTTCTAGAGCAGACACCTAGTGAGAGGAATACCTGGGAGAGAGAC TGCCTTGCCCATGGTGGTTAAACCTACATGAGGGGACTGAAATCTCTTTGGATGCCAGTCCAGATCCC TTTTAAGAAAAATGGGCTTGTTCCAAAGGCTGAGAGCTGGCACCAC[G/A]CACTGGTTTCTAAA TCTCTGGCTTGGATTTTATCCAAGCGCATGTTCTTAACGTGCCCCGTGAGCAG
WI-9470	204	G A ---	---	ATGTCAGAAGAGACACAGACAGAGGAGTTTTCCCTTTTAAATGCTAAACAAGTCCCACTAATCCACA GATCTGAAAAAGTACAGCTCTCCAGGTTGATAATCAGATCCAGGCTTTTCTTGTCAGTCCGCTTA TGAGATCACGAATATGATCTCCCTAAAGCCCCAGATTCCTACTAGAGCCGCTGGGGACACTGATGAC AA[G/A]GCAATCAACTCATCTCCTCAAGCTCACAGGGCTCACCTTCCCAAG
WI-1245b	201	G T ---	---	GATGATTTCTGAAGTCTCAGCAGCCCTGATTCTAAGCCTCATAAGGAAGAGTAGGTGTTAATGGCA TCCTAGGGCAATGGTAGGTGCTGATGCAGATCTGCTGAGCCATGTGCTGGCATCACAGGGTGGT TTATTAATTTTCATTTATCATCTGGACAGCCCCCTTCTTATAACGTACATCCTTGCCTCTTCTGAGGC[G/ T]CTAAGATCCCCAAGGTGGCTCCTGTATCCAGAAA
WI-1245a	85	T C ---	---	GATGATTTCTGAAGTCTCAGCAGCCCTGATTCTAAGCCTCATAAGGAAGAGTAGGTGTTAATGGCA TCCTAGGGCAATGGTAGGTGCTGATGCAGATCTGCTGAGCCATGTGCTGGCATCACAGGGTGGT GGTTTATTAATTTTCATTTATCATCTGGACAGCCCCCTTCTTATAACGTACATCCTTGCCTCTTCTGAGGC GCTAAGATCCCCAAGGTGGCTCCTGTATCCAGAAA
WI-1031	149	G A ---	---	TTAGTGATAAGGACAGGTCTAGAACAAGCGTTCCCAACCCCTGGCACCATGACAGTTTGGACCAAA TAACTCTTTGTTTCAGGGGACTGTCTACACATTTGTGGATGTTAGCAGCCTCCGTGGCTTCTACCCA CTAGATGCCAGCA[G/A]CACAAACACCCCTCCCAACAATCATGACAATGAAAATGTCTTTAGACATT GCCAAATATACCTTGTGGGACAAAATGGCCCCCTGATTGAGAACCACCTGGTT
WI-5385	110	G A ---	---	AATGAGTCATTGTGGAGTTAGAGGAGGTTACTGAAAAATGGTGACTCCCAATGGTGGGATTGGAAGAGG GAAGTCTCGATAATTTTAAACATATGGTTCTTGCCAGGAATCG[G/A]CAATGCTAATCTATTGCTTAA TTCCTTTATCAACAGACTCTTTGAATCAATTTAGAGATACTCAGTGACCCCATGGCTAGAGTTCTTGAC CCCTGCTACGGGAACATTGAATGCA
WI-5403	199	T G ---	---	ACCAACCGTTGGCAAGGCTCCCCAAGACTCACACCCCAACTTTGGTGTACCCCTATGCCGGGTG GGATTGAAGAAATAACCATATAATATGCTACAATTTTCCAGTAGTTACCAGGCACCAGCCTAT TGAAGAAATCATAAATGTAACCCCTACAATGATTGCTCTCTGGCTTGGTGGCCAGGCATAGAGTT[G ]GGCTACACCCCATTTATCATTTGAACCCCTCAGAAGCATCCAGTTGGGGCT
WI-5801b	157	G A ---	---	TGGTATTTTTCCTTTTCTAAAATGTTATGATTAAATAGTGTCTTTGTAGAAATTTGAAAAAATGTAAA TCAGAGAACAGAAAGAAAATAAGTATAGTTGAAACCTCTAACAAATTTAGATTTTAAAGGCCTAG GGAAAGAAAAGAGAGCCTGGGA[G/A]AGGGAATGAGAAAAGCACACCAGAAAAAAGTGTGT GGCTTAAGGGAAGCCCAAGGAAGTTAAGT

WI-5801a	48 A G ---	---	TGGTATTTTCCCTTTCTAAATGTTATGATTAAATAGTGTCTTTGT[A/G]GAATTTGAAAAATGT AAATCAGAGAACAGAAAGAAAAATAAGTATAGTTGAAACCTCTAACAAATTTAGATTTTAAAGGCC TAGGGAAGAAAGAGAGCCTGGGAAGAGGGAATGAGAAAAGCACAACCAAGAAAAAAGTGTGT GGCTTAAGGGAAGCAAGGAAGTTAAGT
WI-5696	61 C A ---	---	TTCTATTTAAATCCTGTGCCCCATTGCAAGACTGCATTAGTCTGCATGAGCCTTAGTTTC[C/A]TAA AAGCCCCCTCACACCGAGGACAATGTTCAGAACTAAATGACTGCAGGTGAGCAATTCCTGTATTAA TACAACTGGGACCAAGATGACTTTATAATAGTGGCAAGAGACAATCAGGCAGACTGGGAGGACC TTATAATAGATTATAAGGCTGTGGTGAGTTATTTTAACTT
WI-7461	153 C T ---	---	TATTACTAGGTTTCATAGAGCCCCGTTGTAATGATAAATAGCCAAATAGTTAAAGAGGCTGCAGGCC AATTCTAACGCTCCTCACTTCCCTTCGAACCCAGCCTCAGAGATGACACTTAGGCTGCACATTCCTG TGGCAGGGACTGTGTCTC[T/G]TCCCTGTTGGGTCCCGGAACCCAGTGTGGTGCCTGGCACAGAG GAGGCCCTGAGTAGCATGTGCTGCA
WI-9716	221 G A ---	---	AGAAGACAGGAGCACTGGGATCAAGGACTGATAAAGTCTGAGGCTTTAATGGTCCCTGTCTCTAAC GCTTTTGGTATACCTTCTCTTCTGAAGACCAACCCCTTCAAACCTCAGAACACAGGCAAGATGCAT ATTCTGATGTTTCAGATGTACTTCCCTACATCTCGAAACTAGATGAGTAGGCTCTCTTCATCT CAATTGAAAATTTCTAGAA[G/A]AAACACCTAATTGGCTCACTTGGATCA
WI-9760	49 C T ---	---	TTTTCGTTAAGTCTTGTAAGCCACACAGAGTGATCTACTCTCTTAC[C/T]AAGTGTACTTTTGCA TATATTTATGGGATGATCTATCCCTACTTAAGATTTCTCTCTCAGGTTAAATATCCATTTCCCT TTGTCAGGAGTTTCTTATTGGCCTTCTTTCTAAACCCCTTAACCATCTGCTTATCTCTGCTTGACA CATGCTATTTAATCAAGGTGACATT
WI-9855	31 A C ---	---	GAAAACCTCGTTGGCTCAAAGGAAACTGTAG[A/C]AAATCTTTTTTTTTTATTTTGTITTTTAACTC AAAGAGTGGAGTTTGCAATTGACCTTGATGGCACGCTGCTCTTTGTGTTGGTGTAAATCCTCTAGT GGGCACCTTGCAAAAGCAATTTAGAGCAAGGTGGTGGCATGGAGTTGTGTAGGTTGCTGAAAAG TAGCAATGGAAGAAAGTTAATGGA
WI-10312	41 A G ---	---	AAGGCCAGTGGGAAAAGCAGACAAAACACTCCAAGAATAC[A/G]AGATATAAAACATCATCATCA GTAGAGATGGGATGACCTAGGAGGTGATGCTGATGAGGGCATGTCAGACCAAAAGACATTTGGGTCT TGAGGGTTGAATAGGAGTTTGTCTGTGAGTCTTGCCAGTCCCATAGTAGGTGTTCCATAAATAAAC AGTGACTAAACTGAGGTAGAGTCACAGAAGAAAATTTCAT
WI-11152	179 C T ---	---	GATTCCTTTGCGACATGCAGAGCAGATACGGCAAGGCATCTTGGGCATTTTGAAGGAAACGAGCCCTA ATTCATAGAAACAGACTCTACAAAGGACCAGTTAAAGGTCTGCAACCAAGGACTGGGTGGCCAAAG TCAGTCAAGGGATAAAGGGGACAAAGTGGGACAAAAGGCTTGTCA[C/T]CTGTCAGAAACATTGAA AACAGCCAGTACATGCCACTGATAGA

WI-1968	167 A G ---	---	TGGTGAGGAGCTGAAGGCTGAAAGAATAGTCTCTGCTCTGCTCTCGTTGGAATGGATGAGTCCT TTTACAAAATTTTCCCTCTGGCATGGGTGTATGTTTAGAATCATGGAGTTGGAAGACTTAGATTCA ATTTGGGCTGTACAGTTTACTGGAAGTTGTJ/GJTGAACTTGAGCAAGTGCTCTTAAATGTCCTCA GCTCAATGCCCTTCCCTGTAA
WI-4701	198 G A ---	---	GGTTTCATTTAACAGCCTTCCCAGTGGGTCTCAGATTGCACGGAGATGTAAAAATAGGAAGATAG AAAAATGGTGCCCACTATTGACTTGATACACCTACAAAACAACACATTAACCTCTCCCACTCTA CCCGCCAAAGTCTACCTTTTGGTCTTTTATTTCTGCTAATGACCATACTATTTCCCAATTAGA[G/A] CCATGTCATTTTTCAGAAAAGCAGTATA
WI-4823	164 C A ---	---	TTTATCTTCCAAACCAGTGTGTTTCTTCACATACCTTACGTAATTTAAATCATGCTATTAATTA TGCACCTACTGTTGGCTACCAGACATTGCTTCCAATTTGTAATTCCTAACACAGCAGCATAACT GATGTCCATCTTTGATTCCTAAA[C/A]AAAGAAAAGTCTTTTGTGCATCTGCCCTCTCTGT CTTCTCTGTTTCACTCTCTGTATTTCCCTATTCAGCATCAATGATTA
WI-4860	72 A G ---	---	AAAAAACAACTTCATTTGACATTTAAGAAGATAAAGAAAACAACGATCCACTGTGTGTTGCTT GATTT[A/G]GGAGATAAACCTGATCTCTAAGAAAATTAACCAAAGCAGTACACTAAAATAGCCT TTGTGTGTTGTTTTCAGGAAGAAAGCCCAATCCAATAAGTTGCTAAGAAAATAATGTTTCATATCA CTCTAACTTCCACATAGAGCATTAAATAGCA
WI-9705	111 C A ---	---	TGAAAGGACCAGTTCGAATGCCTACCAAGTAAAGTAAATCGGAGGGGAGGAAGTAGGAGTTGCTT CCGGATGTTGCATAAAATTCAGGTTCTTTAAGGAGTTGCGTGC[C/A]AAAATTTTAACACTGATGC TGCTACAAACGCACATAGAAATCGGTGGTAGATTGCGGTTCTCTAGTAAGTAGCTAATGTTTAGATA TGATTGTGAATATTGTGCTGTTCTTGGTG
TIGR- A004Z48	177 A G ---	---	CAATAATCTCTGCTTAGAAGTTGCTCTAGGGCCATGGATTTCATGTAGGGTGGGCGAGGTGGACTG AAGATCTGTTGGCAGGGCTCACAGAGACGGGGGTGAGGGGAGAGATCGTGGTTTCATGATCCCAT CTTGGCAATACGGTTATCCCGTGGTCTTCATACGCCACAG[A/G]TCTCCAATTTTCAGGGGCTCC GTGGGATGGTGGAGCCAATGAAGACCAGGTAGATGATGCCACCTAGAGATG
U17579	34 T G ---	---	GGGATTCATGTGTCTCATCCAATAAGCAC[T/G]CATGACCTCAGCCCCATACCTTTCTTCCC TATGTTCCAGAGACAGAAATAGACCTGGCCCCCTTCTCTAGGGATCACAATATTGGAAGGATGAG GACTCCAAACAGCCAGCTCCCATGCCAAATAGAACGATGAGTGTGGGATCAATTTCTATGGAGCC TGGGAGAGGGATCCTTCTAGTTGA
WI-7747b	88 T G ---	---	GTGAGAGCGAGGCTGAGCCTACAGATGAACCTTTCTGGCCTGCTTTGTTAACTGTGTATGTACATA TATATAATTTTAAATTTGAT[T/G]AAAGCTGATTACTGTCAATAAACAGCTTCATGCCCTTTGTAAGTT ATTTCTGTTGTTTGTGTTGGGTATCCTGCCAGTGTGTTGTAATAAGAGATTTGGAGCACTCTGA GTTTACCATTGTATAAAGTATATAATTTTTTATGTTTTTGTCTGA

WI-7747a	44 T C ---	---	GTGAGCGAGGCTGAGCCTACAGATGAACCTCTTCTGGCCCTGCT/CJTTCGTTAACTGIGTATGTAC ATATATATATTTTTTAATTTGATTAAAGCTGATTACTGTCTCAATAAACAGCTTCATGCCTTTGTAAGTT ATTTCTTGTTGTTTGGGTATCCTGCCAGTGTGTTTGTAATAAGAGATTTGGAGCACTCTGA GTTTACCATTGTATAAAGTATATAATTTTTTATGTTTGTTCIGA
WI-7189	197 T C ---	---	TCCAGAAATTTCCCTTCAGCTCATTTTGTCTCTCACAATTAAGGGAGTAGGTTAAGTGAAGGT CACATACCATTATTTCCCTTCAAACAATAATATTTTACAGAGCAGGAGCAAAATATGCGCTTT CTTCTAAGAGATATAATGTTCACTAAATGTGGTATTTTATATTAAAGCCTACAACATTTTTC/JAG TTTGCAATAGAACAATACTGTTGTAATAATTTACCTAAAACCTTGGTTATT
WI-7850	57 G A ---	---	AGCCCCAGCTGGACTCATGGATGTGCACCCCTTTGTCCTGCTCTTCTGCCCTGGG/JAJCTCATGTA TCTGGCGAGCTCTGGTACCCCTCTGTGGGTGCCATCTCTACCTCTGACACAGACTGCCTGCCCTTGAAGCT GAGAAAGGCACAGGGCAAGGAGCCAAAGGACCACAGAGCCTCAGCCAGCCAGGATCCGTCCTCATTTT ATTGGTGATGATGAATGGGAATGAAATCAGGGGGCTGTCTACTAGAGCC
WI-7907	69 G C ---	---	CTCTCTCTTCATCCCATCACCCCTAAATAGGTCAGGTGAGGGAGGCTGGGAAGAGGTGGGAGGAGG G/GC/JAGAAGTGAAGGAAGATAGGAAGGATATTACCTCTCTCTGTTATTTTTTAAAGAAACATTTGTTT GGTGGCAGCAATCTCCCTGTCCCTATCAGTGTAGAGGCCAATTTTATATCTATAAATATATTAAAA AGCAAGTCAAACCTTGGATGTATCAAGGTAAAAATTATTGTCAAAGTTTAAAT
WI-7919	242 T C ---	---	GAAGGCAGCTGGATCACTCCCGCAGTCTTGGGAGCGCTTGTCTGTGGAACACGAGAGCTCCTCCT CAGGGGCTTGGCACTCACTCTCTATTTCTGTATGATGATGTTTGGTTAAACACTGTCAAATAATAGAGAT GTGCCAGATTTAGATTTTCTTACCCTAATCTGTTTAATAATTGTAACITTTATCCATTTTGAAAGTGCA AGCCCATTCAGATAAGCTATAATCTGGTCTTTAAGGAA/JCJACAACITTT
WI-7928	101 T G ---	---	CTCCCTTCTCTATGCTCTCAGCAGCACGTTGGGGCACACTTGTTCATCTCTGACCGTTTGTGGGCTA TTCCCTTGCAGTGCAGACATCGTCAAAATTCAT/JJACAAGAGAGGAAATTTTCATGCAGAAAGCTGTA TGCAGGATGCTCACTGATGTTTGGACTTTAAACTGAAATTCAACTCTTTATATAGGATTTTCTTTT CTATCTCCATCTCCTCATTAATAAATAACGTACATTTTCGAGGTAATGGTA
WI-7936	131 T A ---	---	TTTTGAGTCAAAGACTTAAAGGGCCCAATGAATTTATATACATACTGCATCTTGGTTATTTCTGAA GGTAGCATTTCTTGGAGTTAAATGCACATATAGACACATACACCCCAACACTTACACCAAACT/AJ ACTGAATGAAGAAAGTATTTGGTAACCCAGGCCATTTTGGTGGGAATCCAAGATTGGTCTCCCATATG CAGAAATAGACAAAAAGTATATTAAACAAAGTTTCAGAGTATATTGTTGAA
WI-7944	99 T C ---	---	TACACGTTCCAGCCCGTTGCCCACTCATCTGCGCGCTTGGTTTGGTTGGGGGCGAGATTGGGTTGG AATGCTTTCCATCTCCAGGAGACTTTCATGT/JJAGCCCCAAAGTACAGCCTGGACCACCCCTGGTGTG TGAGCTAGTAAGATTACCTGAGCTGCAGCTGAGCCTGAGCCCAATGGGACAGTTACACTTGACAGA CAAAGATGGTGGAGATTGGCATGCCATTGAACTAAGAGCTCTCAAGTCA

WI-7805	101 A G ---	---	TTTCTAGGCTGACAGTCTGATGCATGATTTTTTATAAATAATTTTATACATCTTGTGAAATTTGGATCTT TTTACTTTGAGCATATATTTAGAAATATGTGTAGTGTAAAGGATCTCCACAATGTCTGCAGTGTG AAGGCAGGTTCAATGTGGAAATAGTTAACAGTCAGGAAGCTAACTGGTCAGTATTAATGTGTAGC CCTACCAAAAATAGCCAGTAGTATCTGAAAAATGAAAAATAAATGAAGTAT
WI-7416	137 G T ---	---	GGCCAGGAGATTAGCAACAAGGATTCATTCTGTTACTTACTTGCCCTTTTATCTTTCCCTCTTGCCC CAGTCCCTTCTCTCCAGCTTCATGTGAAGCTCTGCACAGACAAGACACTCAGTGTCTCTGGCAGTGCT [G/T]TACTCTCTCAGGTGCAGCATACATAACCAGTAAGAGACTAAATCTGCAATATATAAAGAGCTC CTACAAATCAGTAACATGAAGAACACTCAAAAATTTGGCAATGTCAATCAG
WI-140	252 C T ---	---	ATTTGAAGATTGGAGGCTTTGCAGAGGAAAAATAGATTTCAATTTGGATCCCCAAACTATAATGACA AGTTTTTAATAGGTGATCAAGGCTTCTAAAGTGAAATGCAAGTTGTTACCAAGTAAAGTTTATA TCTTCCATTTCAGCCAGCTCATTTGCCAGAAAAATTCAGGTGAGTGGATTGGCCAGACTATCTGGCAAG GATGAAAAATTTAGTTTAAAAATGTGTCATTTGTCTGATTGGCATTCTCT[C/
WI-198	218 C T ---	---	GAGGTCTTTCAGCAACATGGAAGCCCTACTGCTTCAACCCCGAGTCCCGGATCAAGTGTGGCACC CATGATGGAACACTCTTGCCATGGTTTAGTACCCCTGGACCAAGTAGTCATTCCATCCTGACTTTTAAAA TTCTAACAGCCTTTGATGGGACAATCTCTGCTAAAGACTAACCACTTCCCTTATCTTATCTTCAGCTA CCTGCTTCCCTTTCT[C/T]GTTTAAACAAAGCATAGAAATATCTGAACAAC
WI-205c	146 T C ---	---	TTATGGTCCCAAGACAGATTTTAAAGAAAGAAAAATAAGCCTCATCTCCTAACTATGACTTGGTCGG AAGCCAAGAACCTACTTCAACATTTGACCCATAACCTTCTCTTGAGATGATGGCTGACTTTTCAAT GCATGAGTTTG[C/C]CCAAAGGCTTGATGGGAAAAATCTCAACATTTGTTACCTAAGAAAGAGGATGT ATCTTACTTTGTTTAAAAAACTGCATATGCCTTTTATTTTGTAGTTCCC
WI-205b	146 T C ---	---	TTATGGTCCCAAGACAGATTTTAAAGAAAGAAAAATAAGCCTCATCTCCTAACTATGACTTGGTCGG AAGCCAAGAACCTACTTCAACATTTGACCCATAACCTTCTCTTGAGATGATGGCTGACTTTTCAAT GCATGAGTTTG[C/C]CCAAAGGCTTGATGGGAAAAATCTCAACATTTGTTACCTAAGAAAGAGGATGT ATCTTACTTTGTTTAAAAAACTGCATATGCCTTTTATTTTGTAGTTCCC
WI-234	165 G C ---	---	GAAAGACTGAGTTTCCAGGAGTTGCAGCCGTTTCTCTCGGGCCATATGGCTAATAAGGAGCTTGAGCA GGGATTTCAACCTGTTTGCAACCCAAAGTCTTCCAAAGAGGTCTCAGACTACCTCCTCCATCTCCCCCT CTCCCCACACACACAAAAATACAGAGATT[G/C]AATTCAGGAGCCAGTTTCTAGGTGGGCTTTGAGC AATCATACACAGTAATCTCTTGGTGCTTTAGTTTCTCAATGGGAAATGG
WI-276b	25 A G ---	---	AGCTTTTGAATCCAAAAACCACAT[A/G]CTTGACTCTCTTATCCTCCTCTTGTGTAACATCTATCC CTGAGGCAGAAAAATACAGAACACCCCTGTGGCTGCCTGAACGGAGGAGGATGGGGCGGGGAGACAT CGGTCAATGTATCAAGCATCTCTCTGCCCTGAAAGACCTCTCCTGAAAGACATGAGCTATTAGGAGC TCTGGCAAGGGCTTTGTCTTATCCTCCTTGTCTATCCTCCTGATGACTGGGCAAA



WI-276	25 A G ---	---	AGCTTTGAAATCCAAAACCAT[A/G]CTTGACTCTCTTATCCTCCTCTTGTTGTAACATCTATCC CTGAGGCAGAAAATACAGAACCCCTGTGGCTGCCTGAACGGAGGAAGGATGGGGCGGGGAGACAT CGGTCAATGTATCAAGCATCTCTGCTGCTGAAGACCTCTCCTGAAAGACATGAGCTATTAGGAGC TCTGGCAAGGGCTTTGCTTATCCTCCTTGCTATCCTGATGACTGGGCAAA
WI-427	59 G A ---	---	TTTTCCCAATCCACAGGTAAAACATAATAATGGATGTATAGAATTTAGAACTACTTCC[G/A]GTTT TTTCCCTGGGAAAATATTCACAAAACATTTGGTCTGCAATCAGGTAAAAGACATAGTGTGCCA TTTGTATCAGACAGGTAGAGCCCTGACTCTGGCAGGATTAGTACCCTAGCTGTGAGACTTTATGT ATTCAATTTATTAGAGCCAGGGCTTGCTCTGTCAACCCAGCTTTCAGTGCAGT
WI-562c	106 T C ---	---	CTCTTCACTCCAACACTATATTGCTTACTTAATGGTTACAGATTAGCCCAAGAAAGGAGCCCTGTCTC AATACACTAGATATAGTTACTGTGATTATATATTTAAIT[C/J]AAATGGTCCTTTATTAAAAAAA AAAGNTATCTAAAGAGAAAACCATATAATCTCTCAGGTAATTATGGCCACAGCCAAAACCCAGTCT TTCTAAACCTAAAGACTCTCATAAAGGCCCTATCACATAACTTCTCCACTTCC
WI-562b	106 T C ---	---	CTCTTCACTCCAACACTATATTGCTTACTTAATGGTTACAGATTAGCCCAAGAAAGGAGCCCTGTCTC AATACACTAGATATAGTTACTGTGATTATATATTTAAIT[C/J]AAATGGTCCTTTATTAAAAAAA AAAGNTATCTAAAGAGAAAACCATATAATCTCTCAGGTAATTATGGCCACAGCCAAAACCCAGTCT TTCTAAACCTAAAGACTCTCATAAAGGCCCTATCACATAACTTCTCCACTTCC
WI-562	103 T C ---	---	CTCTTCACTCCAACACTATATTGCTTACTTAATGGTTACAGATTAGCCCAAGAAAGGAGCCCTGTCTC AATACACTAGATATAGTTACTGTGATTATATATTT[C/J]AAATAATGGTCCTTTATTAAAAAAA AAAGNTATCTAAAGAGAAAACCATATAATCTCTCAGGTAATTATGGCCACAGCCAAAACCCAGTCT TTCTAAACCTAAAGACTCTCATAAAGGCCCTATCACATAACTTCTCCACTTCC
WI-597c	141 A G ---	---	GTGTAATTTGGTGGCTTTGCAACTTTTCCCAAGTAACCTTTAGAAATNTNAAAGGTGGAAGGTAAGG ATGAGGAAGAAGAGGGNGTAAGAAACAAGATGCTATGTTGAAGAAGTATCCTTAGGATATTCT GATACATG[A/G]TAATGACCCCTCCATGACTCTGGTACCTCATCATACCAATGTGAGAAATTATTAAC TTGATCTAATATTCTTCACAACTAATAACCTGAGAGAAATAAGTCTATTAAAT
WI-597b	141 A G ---	---	GTGTAATTTGGTGGCTTTGCAACTTTTCCCAAGTAACCTTTAGAAATNTNAAAGGTGGAAGGTAAGG ATGAGGAAGAAGAGGGNGTAAGAAACAAGATGCTATGTTGAAGAAGTATCCTTAGGATATTCT GATACATG[A/G]TAATGACCCCTCCATGACTCTGGTACCTCATCATACCAATGTGAGAAATTATTAAC TTGATCTAATATTCTTCACAACTAATAACCTGAGAGAAATAAGTCTATTAAAT
WI-597	136 A G ---	---	GTGTAATTTGGTGGCTTTGCAACTTTTCCCAAGTAACCTTTAGAAATNTNAAAGGTGGAAGGTAAGG ATGAGGAAGAAGAGGGNGTAAGAAACAAGATGCTATGTTGAAGAAGTATCCTTAGGATATTCT GAT[A/G]CATGATAATGACCCCTCCATGACTCTGGTACCTCATCATACCAATGTGAGAAATTATTAAC TTGATCTAATATTCTTCACAACTAATAACCTGAGAGAAATAAGTCTATTAAAT

WI-611	66 G C ---	---	TTCAAATTTACACCAATTGGGTATATTATAATTINGCTCTATCCATAGTTCTAACCCCTCTTCTCTG/ CJACAGTGAGACACCTGCCCTTCTATTGCTTACGCTTAAAGTATTCGATCAGTCACCCATCTGGA ACCAAGTTTCAATTTCTGCTGACCCCTCCCTCTCACCCTACTTGGGCTCTGACTTCTTCTCCTGGGCT GAACCTTCTCTGTGGCTGTCCGGCTTCTCTGCTGGCTCCAATAC
WI-681b	156 A G ---	---	TGAAGCCCTCTCTATACCCAAAGTGTCTTTATCTTAAATGCTGTGGTCAAGTATCTACCCCTTA GGGATATTGTGAGAAATCAATAAGTTTCATACAGGGGAAGCACCTTGTNCCTGGTATGTCATAAGCAA TCCATAATTGTTATAGCTATT[A/G]TTATACTATGGCACCAATTTGGGACACAGATTATATATGTCAGA CACCACGNATGTCCTTTAAGATATGCAGCAAGCACAAATCTGTCAATGGTTT
WI-681	156 A G ---	---	TGAAGCCCTCTCTATACCCAAAGTGTCTTTATCTTAAATGCTGTGGTCAAGTATCTACCCCTTA GGGATATTGTGAGAAATCAATAAGTTTCATACAGGGGAAGCACCTTGTNCCTGGTATGTCATAAGCAA TCCATAATTGTTATAGCTATT[A/G]TTATACTATGGCACCAATTTGGGACACAGATTATATATGTCAGA CACCACGNATGTCCTTTAAGATATGCAGCAAGCACAAATCTGTCAATGGTTT
WI-867b	119 G A ---	---	AATCTTAACAGCCTTTTGATGCCAAAGCCACTTTCAGTCTTAATCTTTTGGAGCCTAAGATCAGTG CAACCCCTCCAAGGCTCCCGAGTATCTGGCACATCTTTCCCTTTTCATCTCC[G/A]TTTGTGTTGGC CAAATAATATCTCCCCAGGGACGTCTCTTTCTAATCCCTGAACCTGAGAAAATGTTATCTTATGC AGTGCTATGGTTGAATGTGTCCTCCCAAGCACACATTAGAAACTTA
WI-867	113 A G ---	---	AATCTTAACAGCCTTTTGATGCCAAAGCCACTTTCAGTCTTAATCTTTTGGAGCCTAAGATCAGTG CAACCCCTCCAAGGCTCCCGAGTATCTGGCACATCTTTCCCTTTTCA/GTCTCCGTTTGTGTTGGC CAAATAATATCTCCCCAGGGACGTCTCTTTCTAATCCCTGAACCTGAGAAAATGTTATCTTATGC AGTGCTATGGTTGAATGTGTCCTCCCAAGCACACATTAGAAACTTA
WI-867	119 G A ---	---	AATCTTAACAGCCTTTTGATGCCAAAGCCACTTTCAGTCTTAATCTTTTGGAGCCTAAGATCAGTG CAACCCCTCCAAGGCTCCCGAGTATCTGGCACATCTTTCCCTTTTCACTCC[G/A]TTTGTGTTGGC CAAATAATATCTCCCCAGGGACGTCTCTTTCTAATCCCTGAACCTGAGAAAATGTTATCTTATGC AGTGCTATGGTTGAATGTGTCCTCCCAAGCACACATTAGAAACTTA
WI-871b	123 C G ---	---	TCATCAGACCTGAGATTCAGCATGAAATCTACCAAAGGTACCAAAATGTAACTTGTCCAAAACGA ATCTCAGTTTCTGCATATGTAATGGGAATGATAAGAGCACCCACCTACCTCATG[C/G]AACTGTT GAGAGAAATAATGAGACATTGTAAGTAAAGTTTGTAAATGCACCTGTTATGGCCTGAATTGTGTACCC TAAATTCATATGTTGAAGCCCTTAACACCCCAATATGNCTGTATTGTACATAA
WI-871	123 C G ---	---	TCATCAGACCTGAGATTCAGCATGAAATCTACCAAAGGTACCAAAATGTAACTTGTCCAAAACGA ATCTCAGTTTCTGCATATGTAATGGGAATGATAAGAGCACCCACCTACCTCATG[C/G]AACTGTT GAGAGAAATAATGAGACATTGTAAGTAAAGTTTGTAAATGCACCTGTTATGGCCTGAATTGTGTACCC TAAATTCATATGTTGAAGCCCTTAACACCCCAATATGNCTGTATTGTACATAA

WI-884	198 T C ---	---	AGGTTCTGGACTTGATGCTGGGAACAATTGGGTTCTGGAGAAATTCCTATTTTGAGTNTTTCACAGAT CAGTAGAGCCAAATGGGAAGGTATCCTAGTCCATCCCTTTATTAGGAACCTTCTGATCTATTGGGA ACTTCTCCTAATAGATCAGGAAATCCACCTCATTTAATCATGGACAACNNAAGGAATA[T/C]G ATCCCGCATGCAACATTTATTCAGTGAACACATGATGAAATGAACATAAT
WI-921b	205 G A ---	---	CACITCCCAAGGGCTCTGGGGGANGAGCGGTGGGACGCTGCCGGGAAGCAGTTCGACACTGACTGA TGCTTTGCTGCAGGGGCTCTGCTCTGAAGCCGGACACTGCCAGGTGCACACAGGACAGTTTACTGG CAGTGATGCCCTCTCAGCCTGGCCCCCAAGAAAGTCTTNGCCAGGAAAAAGCACGATCCATCTAC TCT[G/A]GGGAGAGATCTGACAAATTTAATCAGGAGGAAGAAATCTTCCGAG
WI-921	205 G A ---	---	CACITCCCAAGGGCTCTGGGGGANGAGCGGTGGGACGCTGCCGGGAAGCAGTTCGACACTGACTGA TGCTTTGCTGCAGGGGCTCTGCTCTGAAGCCGGACACTGCCAGGTGCACACAGGACAGTTTACTGG CAGTGATGCCCTCTCAGCCTGGCCCCCAAGAAAGTCTTNGCCAGGAAAAAGCACGATCCATCTAC TCT[G/A]GGGAGAGATCTGACAAATTTAATCAGGAGGAAGAAATCTTCCGAG
WI-945c	90 G C ---	---	GGCTGGGATGAGAGGTTCTACTTGTGGTACTGGAGGTTTCTACTGGCTTGTCTAGAACTAGNAAGNA GAAAGACACAGNATTTGGCTAAC[G/C]CATGGCAGTAGTGGGCCCCAAGGCTGAGTAATAAGAAA AAATCATTAGATAAATGTCATGACCAAAACAAAGTTCAACACANTAGGTGCAGCACANNNGGTT TTCTCTGGTCATAGAATCTCTTAAAGGGAATCATGACAGATTTCTTGGCTTTA
WI-945b	90 G C ---	---	GGCTGGGATGAGAGGTTCTACTTGTGGTACTGGAGGTTTCTACTGGCTTGTCTAGAACTAGNAAGNA GAAAGACACAGNATTTGGCTAAC[G/C]CATGGCAGTAGTGGGCCCCAAGGCTGAGTAATAAGAAA AAATCATTAGATAAATGTCATGACCAAAACAAAGTTCAACACANTAGGTGCAGCACANNNGGTT TTCTCTGGTCATAGAATCTCTTAAAGGGAATCATGACAGATTTCTTGGCTTTA
WI-960b	167 C T ---	---	TTGCTTCAAAGAAGTTCTTGCTCAGGAAGTTATTCTTCAAGCAACCTAAAATGTTTTTGAGTACAT ATCAAGCACAGGGTTCTGAGCAATGTCTTAGGAAGACCATAAAGGTGAATAAATGAGTGTCTTACC CTGAGGAATTTATCAAAGATGTTAAGTTATCT[C/T]CTTAGAGGTATAAGTCATATAGGCATATTCT ATGTATACTAAAGGTGGTATGGCATAAGAGTACATA
WI-960a	155 G A ---	---	TGCTTCAAAGAAGTTCTTGCTCAGGAAGTTATTCTTCAAGCAACCTAAAATGTTTTTGAGTACAT ATCAAGCACAGGGTTCTGAGCAATGTCTTAGGAAGACCATAAAGGTGAATAAATGAGTGTCTTACC CTGAGGAATTTATCAAAGAT[G/A]TTAAGTTATCTCTTAGAGGTATAAGTCATATAGGCATATTCT ATGTATACTAAAGGTGGTATGGCATAAGAGTACATA
WI-1121	181 T C ---	---	TCCCACTGAGTATGGCTTTCAGTAGTTTTTATTATGATGTGCCTAGGTACATTTGTTTTATTGTTCTG CGAATTGTTGATTACTTTGGGAGAAATGCTCAACTATAAATATGCTTCTGACCCCTTTCTGTGTTT CTTCTTAAAGATACAAAATAAATGTAACATTAGACCTCTCACTAT[C/G]GCTGTTTTTACTCTCCTCTG ATTTTTTTTCCATTATTTTATTGCTCTGGCTTCATTTTGTAATNTG

WI-1147b	204 G A ---	---	TTGGCATTATTGAAGATAACCCACACCTTGGTGCCAGGTTTTCACAGGTATTAGTGGTCAGTCA CATAGGCATATAGTACCTGTATGACTTCTATTCCAGCCACCGCAAACCTTCTCCTCCCTGCTGGCTC CTGAGCCAAAACAGGCATTTACCATAAATCACTTTGTTAGGATGAACCTTATCTGGCCAAACTGATA C/GA/GCATGACCCACAGCCTCAGGTATATAAAACACTCTCATCAGGCAGA
WI-1158b	147 C T ---	---	GCATTGAGAGGGTTCGTTTAATGACATTCACCTGAGGCCCTGTCTATGTCAGGCCCTTGGTGTGAAGA CGCAATCATGAACAAAAATGAAAAATACAATGTGATGGTCTCCTGAGTGTCTGAATG/C/GJGCCAGGT TAAGTCTGGGG/C/JTCTGGGGTCAGGCTGCCCTGGGTACATCCTGGCTCCAAACTGCTTTGCTATG GCT
WI-1158a	124 C G ---	---	GCATTGAGAGGGTTCGTTTAATGACATTCACCTGAGGCCCTGTCTATGTCAGGCCCTTGGTGTGAAGA CGCAATCATGAACAAAAATGAAAAATACAATGTGATGGTCTCCTGAGTGTCTGAATG/C/GJGCCAGGT GGCTAAGTGTCTGGGGCTCTGGGGTCAGGCTGCCCTGGGTACATCCTGGCTCCAAACTGCTTTGCTATG GCT
WI-1304	124 T C ---	---	AAGTTACAGAAAAAATACCAGAAAAAGTACCTTCAAGANTCAGCTGAGATAGAAAAATATGCCCA TCATCTTCAANGTCCACAGACACTTATCCCTAGACAGCCATTCTTTTGAATGNT/CJGNCANT AAAAATGATTTGAAATTTGGGAATAAAGCCCTCCCTCTAATGATTTGACAGTGTAGACCTTGCCTAG GGC
WI-1305d	202 C T ---	---	TTCTCAATCCAACTCTGTGTGTTACTTTTATTTCTTCTTCCATTCTATGTTGGTAAATATAAAGATG ATTGTGCAAAAGTATTTAAATATCGTCTGATTATACCAATTTNCAGAAAAGATAAGGTTTCCCTCACA TCCACTGCTTTCANTAAATTNACTCCACTNATGCTNACAAAATNACACTGTTTTAANTGNNATATG/C /TAGGGCGANGTAATANGTATACAGNGANTCATAACAGCCCTGCCTACCA
WI-1305c	46 C T ---	---	TTCTCAATCCAACTCTGTGTGTTACTTTTATTTCTTCTTCCATT/C/JTATGTTGGTAAATATAAAG ATGATTGTGCAAAAGTATTTAAATATCGTCTGATTATACCAATTTNCAGAAAAGATAAGGTTTCCCTC ACATCCACTGCTTTCANTAAATTNACTCCACTNATGCTNACAAAATNACACTGTTTTAANTGNNATA TGCAGGGCGANGTAATANGTATACAGNGANTCATAACAGCCCTGCCTACCA
WI-1305b	153 T C ---	---	TTCTCAATCCAACTCTGTGTGTTACTTTTATTTCTTCTTCCATTCTATGTTGGTAAATATAAAGATG ATTGTGCAAAAGTATTTAAATATCGTCTGATTATACCAATTTNCAGAAAAGATAAGGTTTCCCTCACA TCCACTGCTTTCANTAAAT/CJTNACTCCACTNATGCTNACAAAATNACACTGTTTTAANTGNNATA TGCAGGGCGANGTAATANGTATACAGNGANTCATAACAGCCCTGCCTACCA
WI-1305	202 C T ---	---	TTCTCAATCCAACTCTGTGTGTTACTTTTATTTCTTCTTCCATTCTATGTTGGTAAATATAAAGATG ATTGTGCAAAAGTATTTAAATATCGTCTGATTATACCAATTTNCAGAAAAGATAAGGTTTCCCTCACA TCCACTGCTTTCANTAAATTNACTCCACTNATGCTNACAAAATNACACTGTTTTAANTGNNATATG/C /TAGGGCGANGTAATANGTATACAGNGANTCATAACAGCCCTGCCTACCA

WI-1306b	248 A G ---	---	TTTCTGCATTGGAATAGTTGACCTTCTATGAGNNNGCAATAATAAATGGACAATCTTGTGNNNNNTNG GGCTGGGTGACTGTGCCTGGGTCAATTTAGAAAGCATAGAGATGAAAGTAGCCTGCAATAAAAGAGGA AAGTGAAGCTAATCTGAAGCTGTGACCTAAGGNGAGAAGTGGCCCTNNTTCTGTGCTTTTCAGT CTGTGAGTACACTCCTTTGTGAAGGCCAGTTGAAATTTATCTTCTT[A/G]G/C
WI-1306	240 A G ---	---	TTTCTGCATTGGAATAGTTGACCTTCTATGAGNNNGCAATAATAAATGGACAATCTTGTGNNNNNTNG GGCTGGGTGACTGTGCCTGGGTCAATTTAGAAAGCATAGAGATGAAAGTAGCCTGCAATAAAAGAGGA AAGTGAAGCTAATCTGAAGCTGTGACCTAAGGNGAGAAGTGGCCCTNNTTCTGTGCTTTTCAGT CTGTGAGTACACTCCTTTGTGAAGGCCAGTTGAAATTT[A/G]TCTTCCTAGC
WI-1307b	118 T C ---	---	GACAAAGGCTGGTACTAGTTTCCAAATCCAAATCTATGTACACTTTCCTCTCACTTCTCAAGTGGACA GATTTCTGCATTAACTGCTTGGGGTTGGGGAGCAGTGGTGTAGGCAAT[C/G]GTGAGATTGCTTTT CCTACCCCTTAAATGTATCTTNNCTAATTATNATGCTAAACCCGGTACTGTGATCTATCACTGGTT TCTTTTGGTGTGTTGTTGCTGTGTTTCTCTCTGTAAAGNTGTTT
WI-1307	118 T C ---	---	GACAAAGGCTGGTACTAGTTTCCAAATCCAAATCTATGTACACTTTCCTCTCACTTCTCAAGTGGACA GATTTCTGCATTAACTGCTTGGGGTTGGGGAGCAGTGGTGTAGGCAAT[C/G]GTGAGATTGCTTTT CCTACCCCTTAAATGTATCTTNNCTAATTATNATGCTAAACCCGGTACTGTGATCTATCACTGGTT TCTTTTGGTGTGTTGTTGCTGTGTTTCTCTCTGTAAAGNTGTTT
WI-1325b	169 T C ---	---	GAGAGATGGCCAAAGACAAAGCAGAGGGAGAGAGAACCCNTCTGTGGTTTTATCGCAGCAAGCN ATGCTGTCTCCATACCCAGAAATGAGCATGTGCTCTCTCTATGTATAGATCAGATGACATGGAGAC ATTCAATTAGGCAACTACAATGTGCCTTTGCTCCTCTT[C/ACCCCTCAGAACTTCCTTGAGGGCAGGC ATTATGATCCCACTTTACATCAGTGGGAAATTTGGACTTGGTGAAGTTAGGTT
WI-1325	165 C T ---	---	GAGAGATGGCCAAAGACAAAGCAGAGGGAGAGAGAACCCNTCTGTGGTTTTATCGCAGCAAGCN ATGCTGTCTCCATACCCAGAAATGAGCATGTGCTCTCTCTATGTATAGATCAGATGACATGGAGAC ATTCAATTAGGCAACTACAATGTGCCTTTGCTCCTCTT[C/ACCCCTCAGAACTTCCTTGAGGGCAGGC ATTATGATCCCACTTTACATCAGTGGGAAATTTGGACTTGGTGAAGTTAGGTT
WI-1327b	162 T C ---	---	CTACGATAATTAGGTTTGGCAGTGAGGGTATTAAAGCTGTGTAGTGCAGAAGTCTGTTATTTGTAAA ACACCAAGTGGGTTTAAATGGAATGCGTATGTGTAGTNCATATTCAGGACAGGCTGGGGANGACTC CAGCGACACTATGGAGCTGAGAGTCTGTCGTCCTTACCCCTCAGAACTTCCTTGAGGGCAGGC TCTTNGCTGAAAGTCTCTCCTTACTGAAGAGGCAATGGTTCCATCTCTAAAG
WI-1327	175 C G ---	---	CTACGATAATTAGGTTTGGCAGTGAGGGTATTAAAGCTGTGTAGTGCAGAAGTCTGTTATTTGTAAA ACACCAAGTGGGTTTAAATGGAATGCGTATGTGTAGTNCATATTCAGGACAGGCTGGGGANGACTC CAGCGACACTATGGAGCTGAGAGTCTGTTGAAGTTGGGTAGTCGTCACAGGCTCCCCAAATGTAGT TCTTNGCTGAAAGTCTCTCCTTACTGAAGAGGCAATGGTTCCATCTCTAAAG

WI-1341b	136 G A ---	---	TATCAGCATGATTGTGGCTGTTGGACACAAGTCAATTTGTACTTTTGNNGNNNTCCTTTCTNTTT ACCTGATCCACTATCTCTCAAGATCANGTTCAAATTTGGCTTCTTGTNAAATTATACCCAAGC [G/A]GGATTGTGATGGATCTGTTATTTCTGTGCTTGGACACAGAGTCGCTCTGNGAGTNTG GTTTCAGGATTGTCTCTGTTTCCCCAGCCCACTTGCACCTAGCAAGTGT
WI-1349e	192 G C ---	---	CTGACAAATGTCATATCTCACTCTCTAAACCCACAGGTCATAGAATCAGTTAGCTACCCCTCAATCCA GCAACCCAGCTTTGAAATGGATGCGAGGCGAGGTGGTAGGTCTGGCCTGTCAGTTTGATATATATG GCAGGTGCTCAACAAATGTAGATTCAAGTGAAGGATAGTCTGAAATTTCCATCTCTGA[G/C]TTCAAA ATAATTTGAGAAATATGATAGAAATTTGTGAAGTACTAGATTTTCAGAAAAATA
WI-1349d	264 C A ---	---	CTGACAAATGTCATATCTCACTCTCTAAACCCACAGGTCATAGAATCAGTTAGCTACCCCTCAATCCA GCAACCCAGCTTTGAAATGGATGCGAGGCGAGGTGGTAGGTCTGGCCTGTCAGTTTGATATATATG GCAGGTGCTCAACAAATGTAGATTCAAGTGAAGGATAGTCTGAAATTTCCATCTCTGA[G/C]TTCAAA ATTTGAGAAATATGATAGAAATTTGTGAAGTACTAGATTTTCAGAAAAATATGAT
WI-1349c	192 G C ---	---	CTGACAAATGTCATATCTCACTCTCTAAACCCACAGGTCATAGAATCAGTTAGCTACCCCTCAATCCA GCAACCCAGCTTTGAAATGGATGCGAGGCGAGGTGGTAGGTCTGGCCTGTCAGTTTGATATATATG GCAGGTGCTCAACAAATGTAGATTCAAGTGAAGGATAGTCTGAAATTTCCATCTCTGA[G/C]TTCAAA ATAATTTGAGAAATATGATAGAAATTTGTGAAGTACTAGATTTTCAGAAAAATA
WI-1349b	264 C A ---	---	CTGACAAATGTCATATCTCACTCTCTAAACCCACAGGTCATAGAATCAGTTAGCTACCCCTCAATCCA GCAACCCAGCTTTGAAATGGATGCGAGGCGAGGTGGTAGGTCTGGCCTGTCAGTTTGATATATATG GCAGGTGCTCAACAAATGTAGATTCAAGTGAAGGATAGTCTGAAATTTCCATCTCTGA[G/C]TTCAAA ATTTGAGAAATATGATAGAAATTTGTGAAGTACTAGATTTTCAGAAAAATATGAT
WI-1349	264 C A ---	---	CTGACAAATGTCATATCTCACTCTCTAAACCCACAGGTCATAGAATCAGTTAGCTACCCCTCAATCCA GCAACCCAGCTTTGAAATGGATGCGAGGCGAGGTGGTAGGTCTGGCCTGTCAGTTTGATATATATG GCAGGTGCTCAACAAATGTAGATTCAAGTGAAGGATAGTCTGAAATTTCCATCTCTGA[G/C]TTCAAA ATTTGAGAAATATGATAGAAATTTGTGAAGTACTAGATTTTCAGAAAAATATGAT
WI-1403b	57 C T ---	---	TGGTATTGGAATGGGTTGAGACTCCGGTCTGGCTCTGACCTTTGGTAAGTTG[C/T]TTCGGAAT GCCACTTTATAAAGTTAGAGGTATTACCTTGGAGGGGGGACGTAGAGTAAGCCATAAAATATACGT AAAGTTTACATCAACATAATTCTTGGCCTGCATCATGCAATTTGGCAATATGTCACATAGCTGTCTCA TAATCCCCAAAGTGCCAAAAGGGTTGTATCTGATTGT
WI-1403	58 T C ---	---	TGGTATTGGAATGGGTTGAGACTCCGGTCTGGCTCTGACCTTTGGTAAGTTG[C/T]TTCGGA TGCCACTTTATAAAGTTAGAGGTATTACCTTGGAGGGGGGACGTAGAGTAAGCCATAAAATATACG TAAAGTTTACATCAACATAATTCTTGGCCTGCATCATGCAATTTGGCAATATGTCACATAGCTGTCTC ATAATCCCCAAAGTGCCAAAAGGGTTGTATCTGATTGT

WI-1417c	31 C T ---	---	CAGCCGGAAGAGATTCACGTGGAGAGATGTC/TTTGGCCAGGGCGGCAGATGTGAGCCACGGG GGTGACAGCATGCCGTGGCATTTGGAGGGCCCCAGAAAGGAATCCAGTGGCCCTCTCAATGACTTG GGGTCTCGACTTCGGAAGTTTAAGGGCTCGGCTTCAAAAAGCTGGTCCGGTTTGAGGCGGTTGC AGGCGAGGCCCTTAGGTCGTAATTAATGTTTGGTTGTAGAAAAGTCGC
WI-1417b	31 C T ---	---	CAGCCGGAAGAGATTCACGTGGAGAGATGTC/TTTGGCCAGGGCGGCAGATGTGAGCCACGGG GGTGACAGCATGCCGTGGCATTTGGAGGGCCCCAGAAAGGAATCCAGTGGCCCTCTCAATGACTTG GGGTCTCGACTTCGGAAGTTTAAGGGCTCGGCTTCAAAAAGCTGGTCCGGTTTGAGGCGGTTGC AGGCGAGGCCCTTAGGTCGTAATTAATGTTTGGTTGTAGAAAAGTCGC
WI-1729	172 A ---	---	CCATGAGCAACAGCATGTTTCTACTCTGTGATGTGTATGTTAGGGGCGCATGTATCTGTATTTCTT TTTTATTCTCTCCAAAAGAAATTTTCATTATGCAAAACATTATCAGGCAATGCAGCTCGTAATAAAGA TGTTGGAGAACTGAAAAAGAGAGCTTACATGCACCCCAATAGCAAACTCTCCACACATTTCAGCA GATGATGTGTCCTCCGTGGTACCTTCTCTCCACCACATCACCTGTGTTTT
WI-1732b	122 T C ---	---	TGCCTTACTTCTTTGTTTCATTCOCACCATTACATTTTGTAAATTGGAACCTCTAGGAGGTAGAAAGGA TATGCTGATCAAAAAAGGGGACATATTCAAGGAGTNCCTGGTCAACCCCTTT/CJATTCAGTCT CTGCCACATGTCTAGTAACGTGAGTGATGGGTGCATCAGTATAATCCTGAGCCTCCCAAGGTACAGC CTTTCACACTATTATCATATATTGGCTAAGGTATTTCATCATATTGGCTAAG
WI-1732	114 C T ---	---	TGCCTTACTTCTTTGTTTCATTCOCACCATTACATTTTGTAAATTGGAACCTCTAGGAGGTAGAAAGGA TATGCTGATCAAAAAAGGGGACATATTCAAGGAGTNCCTGGTCAACCCCTTT/CJATTCAGTCT CTGCCACATGTCTAGTAACGTGAGTGATGGGTGCATCAGTATAATCCTGAGCCTCCCAAGGTACAGC CTTTCACACTATTATCATATATTGGCTAAGGTATTTCATCATATTGGCTAAG
WI-1750	97 A G ---	---	GCGAATTTAATGACTCCAAAGGTAGTAATTCCTTCCCCCAAAAAGGTTTAAAACTGTGTGGGA CATAATGTTTGAATTTGCAGTTCACCTTGG/JGJTAAAGGTGCTGTTTTCTGGCAAGAGTCAG TGGGAGTGTCCGGGAAAAGGGCTAAAGTCTTTGTAGTCAGACAAACCGGCTTGCAGTCTCTGACTGAG CTACATTCACITTTATGATCTCCAGCAGGTTCTTCCA
WI-1780	31 A G ---	---	GGTACACAAAGAAATGCTTCTGGAAATCTAC/JGJTAGCGCCCTTAACATTTTGGCTGAGTATTAATC TGTACATGTGTAATGTGAACCAACATGAAGCTGGGCAAGAACAAATTCCTAGGAAAAGTACAATTAC TGGGAAACTGTAGAACAATAATTTCTCATAGTTTACACATAGCTGGGAATCACTCATGTTCCCAATCA ACTGGAGAGACCTTGTGAGTACAGAGGACATTCAGAATAATATCAAAAAAT
WI-1803c	77 A G ---	---	CCACTCAGTAATAATAGTGTGGAGATAAGTATATGGTAGGCACATAATAATTTTTCAGGCAGAA CCATTATGAT/JGJTAGTAGGGTAGAGCATCACACTTGGGAGGACATATTCTGGAGTNAGATATCTCTG GGTGCTAATTTCAAATATATCTACTAAAGCATGACTTCTAGAAAAATTACTTATTACTCTTGTCTCAA GGAATGGGAATACCTATAATACAGTCTTATTGAGGAAAATAACTGGAATCA

WI-1803b	77 A G ---	---	CCACTCAGTAATAAGTGTGGAGATAAGTATATGGTAGGCACATAATAATTATTTTCAGGCAGAA CCATTATGAT/GAGTAGGGTAGAGCATCACACTTGGGAGGACATATCTGGAGTNAGATATCCTG GGTGCTAAATTTCAATATATCTACTAAAGCATGACTTCTAGAAAAATTACTTATTACTCTTGTCCCTCAA GGAAATGGGAATACCTATAATACAGTCTTATTGAGGAAAAATAACTGGAATCA
WI-1837b	112 C T ---	---	TTTACTTGGGATTTTCATAGCTGATCATAAATTTACCATTTGATAATTCACCTCTTTTCCAGGCTCA AGGCTGATAAGCAGTTATCCAGATAGAATAGACCCGTTTATAC/C/TTCTGTCCCCAGTTTATTTTT AAGGTTTTTTTTCATTGCACCTGATGCCAAAAACAACCTCAAAAGACCTTGAGTGAATTTTGAGCT CGGTAAACAACTGGGAAGTCTGGGAACGTTTTCAGTCTTCTGCTGGCT
WI-1837	112 C T ---	---	TTTACTTGGGATTTTCATAGCTGATCATAAATTTACCATTTGATAATTCACCTCTTTTCCAGGCTCA AGGCTGATAAGCAGTTATCCAGATAGAATAGACCCGTTTATAC/C/TTCTGTCCCCAGTTTATTTTT AAGGTTTTTTTTCATTGCACCTGATGCCAAAAACAACCTCAAAAGACCTTGAGTGAATTTTGAGCT CGGTAAACAACTGGGAAGTCTGGGAACGTTTTCAGTCTTCTGCTGGCT
WI-1840b	79 G T ---	---	TCACCTAGGAGGTCGCTAAAAATGTAGCTTCATTAAAGACACCTCAGACCTATTGGATCAGGATCTT TCAGGTAGCACT/G/TTGAGAAATCTGAATATTCAGCACATACAAAGTGTGACAACCACTTGTTTAGTAT ATTTATCTCCAGAGTGTTTTGAATTTACTAAAAAGTTCTTAAAGAGCCATGAAGAAATTATAAGACT ATCGCA
WI-1840	79 G T ---	---	TCACCTAGGAGGTCGCTAAAAATGTAGCTTCATTAAAGACACCTCAGACCTATTGGATCAGGATCTT TCAGGTAGCACT/G/TTGAGAAATCTGAATATTCAGCACATACAAAGTGTGACAACCACTTGTTTAGTAT ATTTATCTCCAGAGTGTTTTGAATTTACTAAAAAGTTCTTAAAGAGCCATGAAGAAATTATAAGACT ATCGCA
WI-1879b	110 C T ---	---	GGGCTCACTTTCATCAGAGCACATATCACGTGATAGTCTGTTTCTCTTTTCACTTACTCCCCCG CACTGTAGGNTTCTTTTGAGGTNAAGGACCTGCCNTTTTAC/C/TTGCTGCAAAATAAACTCCCAAAA AAGTGGTTAGTCCACAGGGTTTAAATAGTCTTGTGTAATGAATTTCTGTGCGACCCCTGTGCCTTCT CAAGAAAAAAAACATTGAAAAATCTCCACAGAGCCCTTACCCACT
WI-1879	110 C T ---	---	GGGCTCACTTTCATCAGAGCACATATCACGTGATAGTCTGTTTCTCTTTTCACTTACTCCCCCG CACTGTAGGNTTCTTTTGAGGTNAAGGACCTGCCNTTTTAC/C/TTGCTGCAAAATAAACTCCCAAAA AAGTGGTTAGTCCACAGGGTTTAAATAGTCTTGTGTAATGAATTTCTGTGCGACCCCTGTGCCTTCT CAAGAAAAAAAACATTGAAAAATCTCCACAGAGCCCTTACCCACT
WI-1900b	119 C T ---	---	TGTTCTCTGTCAGGCACCGGCTAAGTCTTGTCTGCATAATGGAATAATCAACTGGACAACCCNG CTNAGGTAGGNTACCTNNGCAATTAGCCCCATCTTACAGCTGCAAGAGG/C/TTGCTCTGAGAGGT AAAGTCCCTGCCCAACGCGCACAACTAGAGAGAGCAACAGGTTTGAACCCAGCTCTGCCT GACTTCAGATCTGTGCTTAAGTCCATGAGAAACCACTTTCTTTGCTCC



WI-1900	119 C T ---	---	TGTTCTCTGGTCCAGGCACCGGGCTAAGTCTTGCTGCATAATGAATAATCAACTGGACAACCCCNNG CTNAGGTAGGNTACCTNGGCAATTAGCCCCATCTACAGCTGCAAAAGAGG[C]/TGCTCTGAGAGGT AAAGTCCCTGCCCCAACCGGCACAACCTAGAGAGCAGCAACAGGTGTTTGAACCCAGCTCTGCCT GACTTCAGATCTGTGTCTTAAGTCCCATGAGAAACCACTTTCTTTGCTCC
WI-1943c	165 C T ---	---	ATCCAGTTTCACAGTGGGCACAGGATCAGATTAGGGCTAAGTTGGGGGACAGGATGCACAGCGT GTTGGCTCAGGATCTCTGGGAGGTGGCACCTGTGACCTGGCTAANCATGCTACTTTTCAGAGTCAAGC AGCAAGCCAAATGGGTAGGGAAGAACCAAGCC[C]/TCTCTGAANCTGGTCCCACGTGGAGATAGTGAA TACAGGGCACCGNTGAGCATTCAGATGACTCCAAAGCCCCGGCTGGAGTAT
WI-1943b	165 C T ---	---	ATCCAGTTTCACAGTGGGCACAGGATCAGATTAGGGCTAAGTTGGGGGACAGGATGCACAGCGT GTTGGCTCAGGATCTCTGGGAGGTGGCACCTGTGACCTGGCTAANCATGCTACTTTTCAGAGTCAAGC AGCAAGCCAAATGGGTAGGGAAGAACCAAGCC[C]/TCTCTGAANCTGGTCCCACGTGGAGATAGTGAA TACAGGGCACCGNTGAGCATTCAGATGACTCCAAAGCCCCGGCTGGAGTAT
WI-1943	164 C T ---	---	ATCCAGTTTCACAGTGGGCACAGGATCAGATTAGGGCTAAGTTGGGGGACAGGATGCACAGCGT GTTGGCTCAGGATCTCTGGGAGGTGGCACCTGTGACCTGGCTAANCATGCTACTTTTCAGAGTCAAGC AGCAAGCCAAATGGGTAGGGAAGAACCAAGCC[C]/TCTCTGAANCTGGTCCCACGTGGAGATAGTGAA TACAGGGCACCGNTGAGCATTCAGATGACTCCAAAGCCCCGGCTGGAGTAT
WI-1960c	270 A T ---	---	CCAGGTGAGGCTGAAAGAAGGAAGGAGGCAATTGCTGTTGGAGTGAGGGATTCTGGAGAAGCACCCCT GCAGAGCTTCATTCTGTTTCAAAGTGTGCCATGCANGGTCNTCTGGTGTGAGCTCATNGCTGAG TTATCACAGCTCCTGATGACAGATCATGAAAAATAGGTACTTCCCAAGCTCTGACTAGACCTTGGCA GTTGCAATTAAATCCGTGGTGTCTGAAAACTTAAAAATGCACCTCCCAACTTT
WI-1960b	270 A T ---	---	CCAGGTGAGGCTGAAAGAAGGAAGGAGGCAATTGCTGTTGGAGTGAGGGATTCTGGAGAAGCACCCCT GCAGAGCTTCATTCTGTTTCAAAGTGTGCCATGCANGGTCNTCTGGTGTGAGCTCATNGCTGAG TTATCACAGCTCCTGATGACAGATCATGAAAAATAGGTACTTCCCAAGCTCTGACTAGACCTTGGCA GTTGCAATTAAATCCGTGGTGTCTGAAAACTTAAAAATGCACCTCCCAACTTT
WI-1977	203 T C ---	---	CTGATGCCAAGTGCAGCTTAGAGTNAGGAATCCAGAGAAAGTNTTGGATCTGGTAGGAGTCA TTCTGGGCATTCTTCATAGAGTNTTGTCTTGTAGTCTGTAATAATACTGTGGCCCTAGGAAGGTGTT TTTCTACTGCGTCTGTGAAGCCCTTCCCAAGCTGAGTGATACAGTACTTTCCAGTTATGGAGATT[T /C]/TAACAAATCAACACTGGCTGAGGCTGTTGG
WI-2012	102 T C ---	---	AAATTCTAGAAGCCAGAGTCAAGCTACGATTATAAAGTTGAAGTAAATGCATTGTAGTTTCATGT TTTCTCTTAATTCTGCACAAAACCTAGCTAAAAATC[C]/TTTAAATCAGTACCAGAGGCAATACCT GGGTTAATGTAAGCACTCAAAAGTTATGTAGAGTAGCTGTCTCTGAGTCACCTTTTTTCTACTCTCATTT GGCTTACCCTGCTCCACTGGATC

WI-2013	127 C T ---	---	CTTTAGAGTGGTCAATTCGGTCCCTCTGGAAAGTATCGTGTAAAGAAAAATAGATGCAACG TTGCTAAGTACACCTAACATTTAAACAGTCTCCAGCAGATAAATGCTGATACTGACACTGCTCTCA CCAGAAAAAGAGAAATACCCATCATGAGGAAGAGAAATGACTTTTGTTCAGTTATGCTCCCGGGTCC CCTTCACTGGAGGATATCTCAGCTTCTGAGCCCTGGTTACTGCAATCC
WI-2032c	166 G A ---	---	ACCAGACATCCCATCAGGAGTTAGTCCCTCTGGCAAGCCAGCCCTGCCCCTCTGATTTCCCAAAACC TCAATTTTCTTNACTTACTCATAATATTGCTAGGATATCCACATAACCAAAAGCCAAACCTAACC ACATACCCAACTGGTTTCTAGATGTACACG[A]GTGGGACCTCTGCTCAACCTCCGACTTTCAC AGATCATTTGGTTAGGCTCACTTCCCTGTAATTGCTCTCTGTTTTCAAAGGG
WI-2032b	219 C G ---	---	ACCAGACATCCCATCAGGAGTTAGTCCCTCTGGCAAGCCAGCCCTGCCCCTCTGATTTCCCAAAACC TCAATTTTCTTNACTTACTCATAATATTGCTAGGATATCCACATAACCAAAAGCCAAACCTAACC ACATACCCAACTGGTTTCTAGATGTACACGTTGGGACCTCTGCTCAACCTCCGACTTTCACAGA TCATTGGTTAGGCTCA[C/G]CTTCCCTGTAATTGCTCTCTGTTTTCAAAGGG
WI-2032	219 C G ---	---	ACCAGACATCCCATCAGGAGTTAGTCCCTCTGGCAAGCCAGCCCTGCCCCTCTGATTTCCCAAAACC TCAATTTTCTTNACTTACTCATAATATTGCTAGGATATCCACATAACCAAAAGCCAAACCTAACC ACATACCCAACTGGTTTCTAGATGTACACGTTGGGACCTCTGCTCAACCTCCGACTTTCACAGA TCATTGGTTAGGCTCA[C/G]CTTCCCTGTAATTGCTCTCTGTTTTCAAAGGG
WI-2054b	188 C T ---	---	CGTTTTCTCTACATCTTGGGNACATAAAGANGAAGAGNAGCTGTCTTTTGTGGTAGTTTTGCT CAGAGCTGCCCTAGAGCNAGGACAAGACAGGTGACCTTTCAAATACCTTACAGACTTAGGATTGGA TTTTCATGGTGGTTGGCACAGCCAGGCTCAACAGAACTAATACCTGCTTC[C/T]TCTGCCTCCAC CAGCCCTATCTCTTAGGCTCAAGGAGAAATTTACTGGATGGGCTGTCTTT
WI-2054	183 T C ---	---	CGTTTTCTCTACATCTTGGGNACATAAAGANGAAGAGNAGCTGTCTTTTGTGGTAGTTTTGCT CAGAGCTGCCCTAGAGCNAGGACAAGACAGGTGACCTTTCAAATACCTTACAGACTTAGGATTGGA TTTTCATGGTGGTTGGCACAGCCAGGCTCAACAGAACTAATACCTGCTTC[C/G]TTCCTCTGCCTCCAC CAGCCCTATCTCTTAGGCTCAAGGAGAAATTTACTGGATGGGCTGTCTTT
WI-2573d	129 T C ---	---	TGGGATTAACCCCTGTTTCTCTCCAGTTCAGTGTGCCCTAATGTTTGTGCTAGAAATTAACA TTAACAGCAGTAAAAATAGCTCTTAAATGCACCTGCCGTTCAAGGTGTTCCGCTGCTT[C/T]GA TATCATCTGATCTTCCCAACCAGGGCTTATTTATGCTTAGGTAGGGGTAAGCAACAGAGGCTGTGT GAAGTGAATGATTTGCTTGACAAGGTCATATGGCTGGGCTTGGACGAG
WI-2573c	165 A C ---	---	TGGGATTAACCCCTGTTTCTCTCCAGTTCAGTGTGCCCTAATGTTTGTGCTAGAAATTAACA TTAACAGCAGTAAAAATAGCTCTTAAATGCACCTGCCGTTCAAGGTGTTCCGCTGCTTTTGATAT CATCTGATCTTCCCAACCAGGGCTTATTT[A/C]TGCCTAGGTAGGGGTAAAGCAACAGAGGCTGTG TGAAGTGAATGATTTGCTTGACAAGGTCATATGGCTGGGCTTGGACGAG

WI-2573d	129 T C ---	---	TGGGATTAAACCCCTGTTTCTCCAGTTCAGTGTGCCTTAATGTTGTGCTAGAAATTAACA TTAACAGCAGTAAATAAGCTCTTAAATGCACCTGCCGTTACAAAGGTGTTCCGTGCTTTCJGA TATCATCTGATCTCCCAACCAGGGCTTATTATGCTAGGTAGGGTAAGGTAAGCAACACAGAGGCTGTG GAAGTGAATGATTGCTTGACAAGGTCATATGGCTGGCTTGGACGAG
WI-2573c	165 A C ---	---	TGGGATTAAACCCCTGTTTCTCCAGTTCAGTGTGCCTTAATGTTGTGCTAGAAATTAACA TTAACAGCAGTAAATAAGCTCTTAAATGCACCTGCCGTTACAAAGGTGTTCCGTGCTTTCJGAT CATCTGATCTCCCAACCAGGGCTTATTTCJTGCTAGGTAGGGTAAGCAACACAGAGGCTGTG TGAAGTGAATGATTGCTTGACAAGGTCATATGGCTGGCTTGGACGAG
WI-2573b	165 A C ---	---	TGGGATTAAACCCCTGTTTCTCCAGTTCAGTGTGCCTTAATGTTGTGCTAGAAATTAACA TTAACAGCAGTAAATAAGCTCTTAAATGCACCTGCCGTTACAAAGGTGTTCCGTGCTTTCJGAT CATCTGATCTCCCAACCAGGGCTTATTTCJTGCTAGGTAGGGTAAGCAACACAGAGGCTGTG TGAAGTGAATGATTGCTTGACAAGGTCATATGGCTGGCTTGGACGAG
WI-2573a	129 T C ---	---	TGGGATTAAACCCCTGTTTCTCCAGTTCAGTGTGCCTTAATGTTGTGCTAGAAATTAACA TTAACAGCAGTAAATAAGCTCTTAAATGCACCTGCCGTTACAAAGGTGTTCCGTGCTTTCJGA TATCATCTGATCTCCCAACCAGGGCTTATTATGCTAGGTAGGGTAAGCAACACAGAGGCTGTG GAAGTGAATGATTGCTTGACAAGGTCATATGGCTGGCTTGGACGAG
WI-2868b	60 A G ---	---	GACTTCATGCTCATGAACAAGCATTTGCTTAATTACAGACATTAGAACAAGCTTTCJAGJCTC CCACTTCCCTCCCACTATCACCTCAACCTCTTCATCCACTTAAAGAGGTTTCTTAGGTCCTCTGCAT ATCATGGAAGCCCAACTACTCTATTAAACGCTTCCCAATGATGCAGCCCAAGTTCTGCATACAGTTGTA CAGAAATGCTATATTTATGGAACACAGCTGAAAAATGAAATATCGATATAC
WI-2868	60 A G ---	---	GACTTCATGCTCATGAACAAGCATTTGCTTAATTACAGACATTAGAACAAGCTTTCJAGJCTC CCACTTCCCTCCCACTATCACCTCAACCTCTTCATCCACTTAAAGAGGTTTCTTAGGTCCTCTGCAT ATCATGGAAGCCCAACTACTCTATTAAACGCTTCCCAATGATGCAGCCCAAGTTCTGCATACAGTTGTA CAGAAATGCTATATTTATGGAACACAGCTGAAAAATGAAATATCGATATAC
WI-2870b	131 T C ---	---	CATGCTGTGTAACCTCTGTGCTGCTGCTGCGGGGAAATTAGAGCAAGGAATTGTATAATCCTAGGC TTCAAAGGAGCTTCTCATCTCATGAGGAGACAGATGAACATCAGGAAATGACTGGATAATGATTCJ AGAAATGAATAGAGCCCCATTTTAAATTATATACAGCTTTATGTCCACTTCTGTTCTGCCATCAC TGGGCTTTTACAAAGGAGGCTTT
WI-2870	131 T C ---	---	CATGCTGTGTAACCTCTGTGCTGCTGCTGCGGGGAAATTAGAGCAAGGAATTGTATAATCCTAGGC TTCAAAGGAGCTTCTCATCTCATGAGGAGACAGATGAACATCAGGAAATGACTGGATAATGATTCJ AGAAATGAATAGAGCCCCATTTTAAATTATATACAGCTTTATGTCCACTTCTGTTCTGCCATCAC TGGGCTTTTACAAAGGAGGCTTT

WI-2954c	49 T A ---	---	TTAGCACACATATCTGTTGTGGGACTTAACGTAGACAAGGCATAAAAAA[T/A]CAGCACCTGGGGCA CAGAGGGAGCTCTATGCATTNAAATTCCTCATACCTACCCCTCCTCTCATTCATCAATGAGTCCTTTGAGT CCTTGGAAAGACTCTATTCCCTGGGCAACCCCTTGGTCTCTGGCCATCCATTCGACAAATAAGTCCA GAG
WI-2954b	41 A G ---	---	TTAGCACACATATCTGTTGTGGGACTTAACGTAGACAAGGC[A/G]TAAAAAATCAGCACCTGGGGCA CAGAGGGAGCTCTATGCATTNAAATTCCTCATACCTACCCCTCCTCTCATTCATCAATGAGTCCTTTGAGT CCTTGGAAAGACTCTATTCCCTGGGCAACCCCTTGGTCTCTGGCCATCCATTCGACAAATAAGTCCA GAG
WI-2954a	38 G T ---	---	TTAGCACACATATCTGTTGTGGGACTTAACGTAGACA[A/G]TGCATAAAAAATCAGCACCTGGGGCA CAGAGGGAGCTCTATGCATTNAAATTCCTCATACCTACCCCTCCTCTCATTCATCAATGAGTCCTTTGAGT CCTTGGAAAGACTCTATTCCCTGGGCAACCCCTTGGTCTCTGGCCATCCATTCGACAAATAAGTCCA GAG
WI-2971b	62 T C ---	---	ATTACAAATCCTACCTAGCAACTGCTGACACTTCCCAGTTAGACTCACCAGCATTTCTAAGA[T/C]G CTGCCAGGACCAATAAGCTTCTTTCAAAACAATTTGTGAACCTCCTCTCCTTAATAAACCTAAC ATTCCTTTGTTCCCTGACATTCCTGAAGGCCACGCTGTGTAGATGATGTCOCAGATTGCAATCCT AGTTCTTTAATGTTATTCTGAAGAAAACCTTTTACTTAGGGATTGTCT
WI-2971	62 T C ---	---	ATTACAAATCCTACCTAGCAACTGCTGACACTTCCCAGTTAGACTCACCAGCATTTCTAAGA[T/C]G CTGCCAGCACCATAAGCTTCTTTCAAAACAATTTGTGAACCTCCTCTCCTTAATAAACCTAAC ATTCCTTTGTTCCCTGACATTCCTGAAGGCCACGCTGTGTAGATGATGTCOCAGATTGCAATCCT AGTTCTTTAATGTTATTCTGAAGAAAACCTTTTACTTAGGGATTGTCT
WI-2995d	133 A T ---	---	TTCTGGGAAAGAAAAGATGGGGTTTTNTTGTCTCTGACTACAATCCAGAGATAACATCTTTGGC TCCAGTTTNNATCAAGATAAAGACCTGGAAGACCCGAGCCAAAAGGAAGGAGCTGGANTTTTTTT[A /T]AAATCTTTCTTTCTGGTGTTAAGGAAGTTATCTGAAAACCCACTGGTACTCTCCAATGGGTAAA GAATGAGACAGAACTAGCAGAAAGTGTT
WI-2995c	151 G C ---	---	TTCTGGGAAAGAAAAGATGGGGTTTTNTTGTCTCTGACTACAATCCAGAGATAACATCTTTGGC TCCAGTTTNNATCAAGATAAAGACCTGGAAGACCCGAGCCAAAAGGAAGGAGCTGGANTTTTTTT[A AATCTTCTTTCTGGT[G/C]TTAAGGAAGTTATCTGAAAACCCACTGGTACTCTCCAATGGGTAAAG AATGAGACAGAACTAGCAGAAAGTGTT
WI-2995d	133 A T ---	---	TTCTGGGAAAGAAAAGATGGGGTTTTNTTGTCTCTGACTACAATCCAGAGATAACATCTTTGGC TCCAGTTTNNATCAAGATAAAGACCTGGAAGACCCGAGCCAAAAGGAAGGAGCTGGANTTTTTTT[A /T]AAATCTTTCTTTCTGGTGTTAAGGAAGTTATCTGAAAACCCACTGGTACTCTCCAATGGGTAAA GAATGAGACAGAACTAGCAGAAAGTGTT

WI-2995c	151 G C ---	---	TTCTGGGAAAGAAAGATGGGGTTTTNTTGTCTCTGACTACAATCCAGAGATAACATCTTTGCC TCCAGTTTNNATCAAGATAAAGACCTGGAAGACCCGAGCCAAAAGGAGGAGCTGGANTTTTTTTNA AATCTTCTTTCTGGT[G/C]TTTAAGGAAGTTATCTGAAAACCCACTGGTACTCTCCAATGGGTAAAG AATGAGACAGAACTAGCAGAAAGTGTT
WI-2995d	133 A T ---	---	TTCTGGGAAAGAAAGATGGGGTTTTNTTGTCTCTGACTACAATCCAGAGATAACATCTTTGCC TCCAGTTTNNATCAAGATAAAGACCTGGAAGACCCGAGCCAAAAGGAGGAGCTGGANTTTTTTTNA /TAAATCTTTCTTTCTGGT[G/C]TTTAAGGAAGTTATCTGAAAACCCACTGGTACTCTCCAATGGGTAAA GAATGAGACAGAACTAGCAGAAAGTGTT
WI-2995c	151 G C ---	---	TTCTGGGAAAGAAAGATGGGGTTTTNTTGTCTCTGACTACAATCCAGAGATAACATCTTTGCC TCCAGTTTNNATCAAGATAAAGACCTGGAAGACCCGAGCCAAAAGGAGGAGCTGGANTTTTTTTNA AATCTTCTTTCTGGT[G/C]TTTAAGGAAGTTATCTGAAAACCCACTGGTACTCTCCAATGGGTAAAG AATGAGACAGAACTAGCAGAAAGTGTT
WI-2995b	151 G C ---	---	TTCTGGGAAAGAAAGATGGGGTTTTNTTGTCTCTGACTACAATCCAGAGATAACATCTTTGCC TCCAGTTTNNATCAAGATAAAGACCTGGAAGACCCGAGCCAAAAGGAGGAGCTGGANTTTTTTTNA /TAAATCTTTCTTTCTGGT[G/C]TTTAAGGAAGTTATCTGAAAACCCACTGGTACTCTCCAATGGGTAAA GAATGAGACAGAACTAGCAGAAAGTGTT
WI-2995a	133 A T ---	---	GTGGTGCAGTTTCATCTCTGGAGCTCCCTGTGAGATCAGACTGGAGCCAGTCTCCAGCTTGAGACCAC ATCTCACTTAGCTCCTT[C/T]CCTGCCATATCCTGTTTCCCTTACTCCTATCTCCTGAGACTTCTTCT GAATGAATTACATGCACCTCAATCCCTGCCTCAGTCTCTGCTTTNAGGGAACITTGACCTAAGACAGAA ATCTTAGTACCAATACTTTGCAAGG
WI-3147	85 C T ---	---	ATTCTGTAATGTTTTCACCTGCTCCAGTAAATCTTTATTGAGGTCCATGTCCATTACCTCTACTTA T/C]GACAAGCAAGAACAAACAGAAAAGCCTCTGTTTGCAATCTGGCCTCTTATAAATACTTTCTG TATAATTTAAACAAGTACTGTAGAGTNATGAATCATACATCCTTAATAAGCATATCAAAAATTTTAC TCAGTAATTCAGAAAGGAGGACAATGGAATGTACTTATTTTATATCTTAT
WI-3234b	68 T C ---	---	ATTCTGTAATGTTTTCACCTGCTCCAGTAAATCTTTATTGAGGTCCATGTCCATTACCTCTACTTA T/C]GACAAGCAAGAACAAACAGAAAAGCCTCTGTTTGCAATCTGGCCTCTTATAAATACTTTCTG TATAATTTAAACAAGTACTGTAGAGTNATGAATCATACATCCTTAATAAGCATATCAAAAATTTTAC TCAGTAATTCAGAAAGGAGGACAATGGAATGTACTTATTTTATATCTTAT
WI-3234	68 T C ---	---	ATTCTGTAATGTTTTCACCTGCTCCAGTAAATCTTTATTGAGGTCCATGTCCATTACCTCTACTTA T/C]GACAAGCAAGAACAAACAGAAAAGCCTCTGTTTGCAATCTGGCCTCTTATAAATACTTTCTG TATAATTTAAACAAGTACTGTAGAGTNATGAATCATACATCCTTAATAAGCATATCAAAAATTTTAC TCAGTAATTCAGAAAGGAGGACAATGGAATGTACTTATTTTATATCTTAT

WI-3292b	106	GA ---	---	GTTTGTAGACTAGGAGTTTCAGCTTCATCCAAATCCCTTTAAGGATANTTAGCTCTGCACTCATCC TCCCTGTCCCGTCCCAAGCCTATGTTACTGGTATGCT[G/A]JGGGATTGGATTGGGATGGATTACTT GCCATGAATATTTTCCATTGTTTCTCATTAATGTAATTAATTAAGTAAATATTTATTNCCATGA GACACAATGGAAAAATGGAAACATTTCATGGAAAAAACCCATTTCAATC
WI-3292	106	GA ---	---	GTTTGTAGACTAGGAGTTTCAGCTTCATCCAAATCCCTTTAAGGATANTTAGCTCTGCACTCATCC TCCCTGTCCCGTCCCAAGCCTATGTTACTGGTATGCT[G/A]JGGGATTGGATTGGGATGGATTACTT GCCATGAATATTTTCCATTGTTTCTCATTAATGTAATTAATTAAGTAAATATTTATTNCCATGA GACACAATGGAAAAATGGAAACATTTCATGGAAAAAACCCATTTCAATC
WI-3355	19	GC ---	---	CCATGAACCATGGGCTACA[G/C]ATATTCCTAAACTTCAGAGTCCCTCTTACTGGAGAGGGATCCA CTTTTAAATATGATTTCTTGAAGTGGCTGCATCTATTCCTCCAAAGCCTTAAACCTCATCAGAA AAAAAATCATCAAAAAAGTCGAAGTTAGTTTNNATTACCTTCACCTTTTCAATGGAAAACTTTATAA ACTGTGGATCAATTTATATTACTTTTGGATCAGTTTAGATGACTTTNAGTTG
WI-3408	194	GA ---	---	CCATGAAGAATGAGTTCTCCCTCCCTGGGTACGCTAAGAAATAGCACACCCCTTGAGAAATTNACT TAGCACGTGGCATTGTAATGGTGGATTTCCTCCGCTCTAAGACACACCTTTATGCTTTTCAAGCTTT CTGGAATTGGGATGAATCTNACATCAATGTGCACCCCTTCGTGTGGGATCACTTCTCC[G/A]TGCCCC ATCTCTGNGAAGCCACTGGGAAGTCGAAGAGTGACTTCAAAATCAGG
WI-3505b	131	GA ---	---	TAACTTATGCCTCATCTGGCTTACTGCTTAGTCCCATTTGTCATCAGTGCACCTTAAAAATATTTT GAAAAATTGCCATTTTAAATATCTTTGGAACCTCTTAACACATTACCTATTTTNAACCAAAC[G/A] AGGTGATTCCTTATGGGAAAATATATACAGCAAGAAAAAANANGGAAAAAATGTTGATGATACCT GTTTAAATTGGGAAAATATGTTTGCATAT
WI-3505	131	GA ---	---	TAACTTATGCCTCATCTGGCTTACTGCTTAGTCCCATTTGTCATCAGTGCACCTTAAAAATATTTT GAAAAATTGCCATTTTAAATATCTTTGGAACCTCTTAACACATTACCTATTTTNAACCAAAC[G/A] AGGTGATTCCTTATGGGAAAATATATACAGCAAGAAAAAANANGGAAAAAATGTTGATGATACCT GTTTAAATTGGGAAAATATGTTTGCATAT
WI-3564b	177	CT ---	---	GCTAGTAAGGTTCCACCTAAATGGTTCCAAAGTCAGGAGTCACTAAATGTTTTGAGAAATAAAAGT GAAATCAATGTGCTTCCAGTGTATTCACATGGCAGAGTGTACAGAGGCTTGAGCGTCTGAGCG TGGGACTTCACTGGTTGACTAACGTTAACATGCATGCTGTTC/TJAAACAAGTGTTTGTTGGTGTATC AGTGTACACATGCTACCTTCCCTTCACAAAAACAA
WI-3564	177	CT ---	---	GCTAGTAAGGTTCCACCTAAATGGTTCCAAAGTCAGGAGTCACTAAATGTTTTGAGAAATAAAAGT GAAATCAATGTGCTTCCAGTGTATTCACATGGCAGAGTGTACAGAGGCTTGAGCGTCTGAGCG TGGGACTTCACTGGTTGACTAACGTTAACATGCATGCTGTTC/TJAAACAAGTGTTTGTTGGTGTATC AGTGTACACATGCTACCTTCCCTTCACAAAAACAA

WI-3649	64 A	---	---	---	AATGTCCATGCTGTGACTGACCTGTCTAACACCTTTCCTAGTATTCCTTTAGTGAAGATTCCAC[A/G] AGACCAGTTTGCCTTCACTTAGTAGGGCCAATGATAGACTTTTATAGTGCTACCAAGGTACCTGC ACAGCCACATCATATGTCACAGTATGGTTGCAAAGGACCTGTCTAGACTCTTTCTGCCTTGCCTTGGTC TTCTGTTTTACCATATTATGATGACATGCAAACTCAGAGCCTTTTA
WI-3674b	133 GC	---	---	---	ACAGTACACATGGCCCCATTATGGAACAATCATCTGACTTATGTTACCTGAGAAGTCCCTCTCTAA ATTTAACTACCAGGGGAGTCTTTATAGTAATTAATATGTTTATTTAGAAAAAACAATAAT[G /C]AAGAAAAAATGATAGTCAAGTTGTAGACACTATTTAAAAATTGTAACCTGGTCAAAATGATTGTT AATCTTAATTAATTGTTTTATGTTTTNATTACTGCCAATCAGAGCCAAG
WI-3674	133 GC	---	---	---	ACAGTACACATGGCCCCATTATGGAACAATCATCTGACTTATGTTACCTGAGAAGTCCCTCTCTAA ATTTAACTACCAGGGGAGTCTTTATAGTAATTAATATGTTTATTTAGAAAAAACAATAAT[G /C]AAGAAAAAATGATAGTCAAGTTGTAGACACTATTTAAAAATTGTAACCTGGTCAAAATGATTGTT AATCTTAATTAATTGTTTTATGTTTTNATTACTGCCAATCAGAGCCAAG
WI-3682	137 GA	---	---	---	CAATATAGACCAAATGACTGCCACAAGAGAAATTAGTGGATCTACATTTAGAAACCACATGTTTT ATTGGCTCTCTCTTCTCTCTCTTTTAAATGCTCTCCAAACCAATTCACCTTATCTTTTCAA T[G/A]AGCATTTGTCCAAATTTAAAGTCAATGAAAAATAATGTACATTTTTCAACAAGTATACATTAA GCCCTGCAAAAGTCTTATATGCTAT
WI-3854b	194 GA	---	---	---	GGTATGTTGAGGTCAGCTAATGGTCACTGTGGTTGGAGTGAATCTAAATGGATTTTTGGCCCTTGA CAAAGACCAAGGACAACGTGAGGACTTCTGCATGGTCTACCTCACCCTTATAGGCTTCTTGATTAATACTC TGTTTCAGGAAGGCAAGGGCAGTTATGACCACCTTACAACCTGAGGAAATCAAAGCAAC[G/A]AGAA GTTAAATGGCCTGTCCCACTCCACAGAAATGGTTATAACAGAGTCAGAGCCA
WI-3854	194 GA	---	---	---	GGTATGTTGAGGTCAGCTAATGGTCACTGTGGTTGGAGTGAATCTAAATGGATTTTTGGCCCTTGA CAAAGACCAAGGACAACGTGAGGACTTCTGCATGGTCTACCTCACCCTTATAGGCTTCTTGATTAATACTC TGTTTCAGGAAGGCAAGGGCAGTTATGACCACCTTACAACCTGAGGAAATCAAAGCAAC[G/A]AGAA GTTAAATGGCCTGTCCCACTCCACAGAAATGGTTATAACAGAGTCAGAGCCA
WI-4039	210 GA	---	---	---	AGCCAGCCACATCATGTTGAGTCCCTGCTCATCTCCCATCTCTTATTTCTCTACTGCCTTCACCTT CCATTAAACAAGAACTCTTGATTACATGATGTTTGTGGTTACACTACAGAATCCAAGATGACCTC CCCATCTCAAGGTCAACTAAATAACACCTTAATTCTATTTGCAATCTTTGTCAATACCATAACATAIT CATGG[G/A]TTCTGGGATAAGGGGTAGACATTTTATGGGAGGCCATTA
WI-4110b	130 T	---	---	---	GAAAAATGATGTTTTGATTTCCCTTCCATCTTCAGATTATGGAGTGTCAATTAGAAAACTGATAGT AACCTTTTATTTGATGAAACTGTCTATAATTAACCTTCCCTCTCTCTGCTTATTTTGGCTT[C]ACA GTTTAGTAAATAAAGATGCCCCAAGAAATTCAGTATTCAGGTACAGTAAAAAGTAGCAACCACTGGG GTAGGGACAAGTNCAGAAAAAGGGAGGAGGTTGGGGGTTTTCTGGGAAGA

[illegible]



WI-4230	93 T ---			AGAGACGTTGAATGGGGACATCTTTCTATTCGATTTTAGTTTAAACATTTGATAAGAAATTGATGAAA GTTTGTCACATTCAGATTTATCTTTATAGCAGCAGAAGTCTGGCAATAATAACAGCACACTGACT TTTCCATGGTAAAAAGAAGTTAGAGAAAAACAGCCTATTTTCTTAATGTTAAATGTAATCTGAAT ACATTTTAAATGGAGGAGAATGAATAGTGACCTTTTGAAATTTTGAAATTTATGG
WI-4241	118 C T ---			GAAAAATCCATTGAAGTTTGACCTTGAACCTGATCTCATTAATACCTTTTNCITGAGTGGTTGATTT CATTTTGGACAACAGAACAGACGAGAAAAATTTCCACTTAAAAATTAATTTCTC[CT]JAAGTATCTATGAT TTAGCACTGTTAGCACCCAGAAACTGTGAAATTAATCTCCTAGATATCTTCAGAACTCTAGGATGGAAAG AA
WI-4271b	151 A ---			CAGGGCTTTTGGGAAGATCAGTTAAAGCAGANCTGGACCTAAAAAGACTAAGCACATTTTCAGCAT CAACAAAAGGTGACATGTTACCCATGAAGTCCCTGGAGGATTAAGATCAATAAGAGCCTCAGG GGACTGAATCCAAACGGGGAATATTAGAGTNCCTACAGGGAGCCCCAACCCCTTCTGCTCAGG CTCTAGAAGGTCCAGTCAGGGGC
WI-4271	151 A ---			CAGGGCTTTTGGGAAGATCAGTTAAAGCAGANCTGGACCTAAAAAGACTAAGCACATTTTCAGCAT CAACAAAAGGTGACATGTTACCCATGAAGTCCCTGGAGGATTAAGATCAATAAGAGCCTCAGG GGACTGAATCCAAACGGGGAATATTAGAGTNCCTACAGGGAGCCCCAACCCCTTCTGCTCAGG CTCTAGAAGGTCCAGTCAGGGGC
WI-4389b	156 G A ---			AATCGAAACATTGATTTTTTTGTAAAGGAACCCACATTATTTATGATATTTGTGCCAGTTTAGCATAT GAAATTTGAAAGGGATGAACCTGGAGGAAGAGAGAGATAGAAAGGATATTATTCATAACCTTTGGA AGGTAAGATGTGAACCTATACA[G/A]JTNCGCAAGGAAAGTAGAAATGGAACAGACATGATTGACTTA AGAGGTATTGTAGGAAGTGAAGCGGTAA
WI-4389	156 G A ---			AATCGAAACATTGATTTTTTTGTAAAGGAACCCACATTATTTATGATATTTGTGCCAGTTTAGCATAT GAAATTTGAAAGGGATGAACCTGGAGGAAGAGAGAGATAGAAAGGATATTATTCATAACCTTTGGA AGGTAAGATGTGAACCTATACA[G/A]JTNCGCAAGGAAAGTAGAAATGGAACAGACATGATTGACTTA AGAGGTATTGTAGGAAGTGAAGCGGTAA
WI-4488	31 A G ---			GATGACAAATTATTGTGATTGGCATTTTAA[A/G]GTACCAATTCATTTCTCTGGCTTTCGTGTGTT TGTTGTTGAGAAAGTCAGGGTTAGTCGATTGCTCTTTCTAGTCTTCTCAGTAGGAAGACTGATC CTAAACAACCTAATTACCCATGCCAAAGTAGCTCCAAACTGATCTTTAAAGAACATAAATCAAAATTG TATTATCCTATGCTTAAATGCTCAG
WI-4491	145 G C ---			ACCATCAATGTATCACCTCTAAAAATTTATTAGATGATTAACTGGCTCTGTTAAAAAATAAAACCT GTCCTGGACATTGAAAAATAAACACATTACTATTGGTCATTTCTGCTACTTACAAGGTAAGTGCACATA AACAAGTTAAG[G/C]GTTTTTGGAGGGGAAAAATCATAAAAATGCATAAAATTTCTACCACTGTCA TTTCTTGTCCCATAAATAAAATTTTACATGCCT

WI-4584	144 A G ---	---	TTGGTTGGCATTTAGCCTCATAACAACATTTTACAATCATAAATGTTACTCTTATTTTACAACAAG AAAAATGAGGCTTAACATCACACTTCTGCTAGTCGAGAGCCCAAGATTTGAACCCAGGAATCCATT CACCGGTAC[A/G]TGCTACCTGGTAAAAAATGTTTAAATTAATCTATGGCATTAGATTTCAAAGA GTCCTAATGTGGTTTGAATAATAGGTGCTTTAATTTGTTTATCAGTATGC
WI-4639	185 C T ---	---	TTTCTGCATTGAATGTGTATGGTCAGACTTCAGAGGAACCCAGGAATCTCATTTTATTCAGTACAATA TGGTGGCCAGGTGCTCAGGCCCTATTATCAGAGAGATCTCAGTTAACTTTCCAAATCCACCATTAC TGACCATATGACTTGGGGAACATTATCTCACCTATCTAGTCTGTATCCQ[η]CATCTTTAAATTTGTA AATTTAAGGACACCTATCATAGTAATATTGTGAGGATAAAATGAAATAA
WI-5327	63 A ---	---	AAATGAATCCGCTTTAGAGCAAATACCAGTAAGGGCTGGTGCGAGGATGGTGGCTGAGAGA[A/-] JGATTACTCATAAAAGCATATTAAATTTTATAAATATGGAATAATTAAGTAAATGTTGAAT TGAGTTGAAGGTTGCATGAGAGTAGGGAGGAGGTAGTTTCTACTATAGGGTTTATATAAGTNTGCT TCAATAGAATGGCTCTTTCCGGATGACAATGATGAACCTGTTCTAAGCAGACAG
WI-5390	87 C T ---	---	GCCTTTGAGAAATGAAAAGGGGAGCCTGGACCATTGCAGGGCTTCTCATCTCTGATTATTTTGTGTAT TTATTGTTCACTTATTTAT[η]GCTGCTCTCCCTTCTGGTATGCTTGTGCATGAACAATGAATTG CCCAGTGCCTGGCCGATTCTGGCTCCTAGAGGTGCCAGAAAAAAGTTTCGGTGAATAGAAATTG ACGAATGGTTCAGAATTGAAACCTGTGAATCTATGGAAGACAAACGAAT
WI-5404b	87 G A ---	---	CCTTGCCTGCTTTATGCATAATGAGAATAGAGTTGACTCTCCTGTCAGAAATCAATTTAAGCAGT GCAACATTAATTTAATTT[G/A]AAGAAACTTGTCTGAACTTTGTACTCTTTGTAGTNAATTTG AATCTTCTCTCAGCAGTTCCATGGTGTGAATCCACCCCATCTCTTTCCACCAGTAGCAAGATT GCTACTTATATGGAAGGTTTATAGATTCTATAACAA
WI-5404	87 G A ---	---	CCTTGCCTGCTTTATGCATAATGAGAATAGAGTTGACTCTCCTGTCAGAAATCAATTTAAGCAGT GCAACATTAATTTAATTT[G/A]AAGAAACTTGTCTGAACTTTGTACTCTTTGTAGTNAATTTG AATCTTCTCTCAGCAGTTCCATGGTGTGAATCCACCCCATCTCTTTCCACCAGTAGCAAGATT GCTACTTATATGGAAGGTTTATAGATTCTATAACAA
WI-5545b	77 A C ---	---	TAGGAAGGGGATGGTGATGGCCTCTGAGACATTTAAATCTATTCTTCCACCCTCACACTGCCGCCA TATCTCCTC[A/C]CCAAACCTCTGTTTCTGACAGCCCAAGTTTCCATCAGTTGATATGGGACTATTT GTTGCAAAACAATTTGTTAAAGATTGGCTGACTTTGGCTGAATTTGCTACAACCTCCAAAAAGANTC GAGATACACCATGAATTTTATTTTCATTCA
WI-5545	77 A C ---	---	TAGGAAGGGGATGGTGATGGCCTCTGAGACATTTAAATCTATTCTTCCACCCTCACACTGCCGCCA TATCTCCTC[A/C]CCAAACCTCTGTTTCTGACAGCCCAAGTTTCCATCAGTTGATATGGGACTATTT GTTGCAAAACAATTTGTTAAAGATTGGCTGACTTTGGCTGAATTTGCTACAACCTCCAAAAAGANTC GAGATACACCATGAATTTTATTTTCATTCA

WI-5860b	134 A G ---	---	ACTCAAGTTTGGGGGATAAAATCAGAAGTTTCTATGTACAACCTTAAATTTTCTAAGATTTTATTGT TTCTTTTATATAAAATTATGGAATTTGTTTACTTCCCTAACCAACCTTCTAACTGAGGAACCTAC[A/ G]TTATACTGGAATCATGTGAAGACATTTCTAAAGGGTACCCAGGTGCACATAGTTTAAAGGGAATCA ATTTCCAAATCATCAACTTCTGTAT
WI-5860	134 A G ---	---	ACTCAAGTTTGGGGGATAAAATCAGAAGTTTCTATGTACAACCTTAAATTTTCTAAGATTTTATTGT TTCTTTTATATAAAATTATGGAATTTGTTTACTTCCCTAACCAACCTTCTAACTGAGGAACCTAC[A/ G]TTATACTGGAATCATGTGAAGACATTTCTAAAGGGTACCCAGGTGCACATAGTTTAAAGGGAATCA ATTTCCAAATCATCAACTTCTGTAT
WI-6106	208 C G ---	---	GCAACAACCTATTATACCTGATTCACCCAGGTCTACTAACATTAAATCAACCCCTAACCAATAC TATATATTGTCCTGTTCTGAATTTATTTTCAATTTAGAATCTGATGAGATTTAGCATGGGATAAGTGCAG TGCAGAGATAGTAAACACTGCTCTTTTGGCTCCAGGAGTCTCAATGTGAAGTATAATCTTTACAGAG TAATTC[G]ATAGTAGGTACCCACAAAGTCTATATTGTATGTGAAGGAAAG
WI-6109d	129 T C ---	---	AAGATAGACAAACATATGCCAGACCAACAAACACAGACCTGTCTATATTTCTGAGAGAAATGTAC ATTGAGTCTTCCCTCTCTGGGACTATAAGGAGATCAGGTGGAATAAACGAAGAAAAAACCTTC[C] AAACCTATATTTNCTGTTCTGTGCATACCTTTAAATGTATAATGTGGGAGAGAGGAATTTTGATGT GNAAAATTATCCCTGAAAAATTTTATACCA
WI-6109c	147 T C ---	---	AAGATAGACAAACATATGCCAGACCAACAAACACAGACCTGTCTATATTTCTGAGAGAAATGTAC ATTGAGTCTTCCCTCTCTGGGACTATAAGGAGATCAGGTGGAATAAACGAAGAAAAAACCTAA ACCTATATTTNCTGT[C]CTGTGCATACCTTTAAATGTATAATGTGGGAGAGAGGAATTTTGATG TGNAAAATTATCCCTGAAAAATTTTATACCA
WI-6109b	147 T C ---	---	AAGATAGACAAACATATGCCAGACCAACAAACACAGACCTGTCTATATTTCTGAGAGAAATGTAC ATTGAGTCTTCCCTCTCTGGGACTATAAGGAGATCAGGTGGAATAAACGAAGAAAAAACCTAA ACCTATATTTNCTGT[C]CTGTGCATACCTTTAAATGTATAATGTGGGAGAGAGGAATTTTGATG TGNAAAATTATCCCTGAAAAATTTTATACCA
WI-6109a	129 T C ---	---	AAGATAGACAAACATATGCCAGACCAACAAACACAGACCTGTCTATATTTCTGAGAGAAATGTAC ATTGAGTCTTCCCTCTCTGGGACTATAAGGAGATCAGGTGGAATAAACGAAGAAAAAACCTTC[C] AAACCTATATTTNCTGTCTGTGCATACCTTTAAATGTATAATGTGGGAGAGAGGAATTTTGATGT GNAAAATTATCCCTGAAAAATTTTATACCA
WI-6112	96 T C ---	---	AATGCCCTATCACCTTCCATCATGCTGCATAACTGATTGATTCAATGCTTATTGTTAGCACCTGTC TTCCAAGACATGCTGTTTGTTCATGAT[C]GTCATATCCCAAGTCCCTAGACAATGCCCTCCCATAC AGTGAACAGATTTTGAATAAACATACCTTGTAAATCAATAAAATTAATCAACTTGGCATATGACAGG GAAC

WI-6244	103	C T ---	---	TAATTGCACAACCTACATATCAGGGTTCTGATTGAAAGGAGAGAATATTCCTTCTTTAGTGATT GCTTAATATTAAATCATAATAAGTCACCATCTCTT[C]GCTCCTTATAAATGTGTTAGAAAGAGG AAATTGAGTGTGGGAATTAGCAACCAGGAGACATTTTATATACCTCTACAGTGGGGAAGACTT CCTATTTCTTCCCAAGGATGGATACATTTCTAC
WI-6268	124	C T ---	---	CTGGCCTTATAATCCAAGTTAGGATTAACTTACCCCAACTTAATAGACTTCCAGACAGTTGCAGTT GTCTACAAGATTCTCTAGTAGGGCTTTGGGTTTGGCACCGTTTGGCTCATTC[C]TACTCTCCCT GGGTCTTATTGACTTTACGGGAGCCTAGAAGAGCTGGACAAAACCTGCTTCTTTGCAGAAAAGAGTCG GGTTCCAAAGATTTCGTACGATTTTATA
WI-6336b	234	C T ---	---	AGGTGCCATTTAATCCATTCAAATTTGGAAGCTACATCTCAAGGGTCTGAGAGAGCTCACTCCCCC ATATATCCCCCTTTACATGTTTCTTATAAGACATACAGTTTAACTCAATTAAACAACTAAACAGCTT ATATACTGGCAATATATACAGATGGTTTATGTCAGAGTAATAGATCACATGAAATGGACCATGTG GTACCCAGTGCAATTATGCTTGGTAGAGCC[C]TJTGAGGACACTGACAGT
WI-6336	234	C T ---	---	AGGTGCCATTTAATCCATTCAAATTTGGAAGCTACATCTCAAGGGTCTGAGAGAGCTCACTCCCCC ATATATCCCCCTTTACATGTTTCTTATAAGACATACAGTTTAACTCAATTAAACAACTAAACAGCTT ATATACTGGCAATATATACAGATGGTTTATGTCAGAGTAATAGATCACATGAAATGGACCATGTG GTACCCAGTGCAATTATGCTTGGTAGAGCC[C]TJTGAGGACACTGACAGT
WI-6381	92	C A ---	---	TTGGATACAAAAATTCAGTTACACAAATCAGTAGGATTCAAAAATTAGTTATGAGTATTTATACAATTA CAAAAAATGNTTCATGTTTTAAACAA[C/A]GTAATTTAAAGCTCAACAAATTTAAACAGGCACAAT ATTCTAANGGCATATGCATTCACCATGGCTTTTGAATGTCTCACTCCCAACTTCACAATCAAAATC TACAGANGCGGCAAAAGATCAGAGTTTCAG
WI-6436	198	C G ---	---	GGTTGAGGCATTGGGAAAGGCAGAAATTTAGGGCAGTAGAAAAATGGACATTTTAGGAAAAGAGAAGT TCAGAGGCAAAAGTCATGACAGACAGGAAATACAAGGCTTAGGAAGACAGTAGTCTCTGTGGTTGAA ATTTTGGTGTCAATAAAGAAGTTTAGACTTTGGTGGTTGTAGTAGTTAGTAGAGGTAGCGTT[C/ G]ATTGGGTGTATCCACAGACAAGGTGATGTTCTAAGATTTGATATTTATTGT
WI-6449	186	C T ---	---	GAGGCCTCTTTGCTTTCTCAGTCAAGGCTGTATCCAGGGTTGATATCTAGCCTATATGCCATATGT GTATGGCTAGTGTGTTGTTCTGATTGGTTGGTCTCACACTGCCAGATTGTTAAATATTTTGAAAATC GTAICTGGTTCTATTTCATCTGCATCTCTGATCTTATGCTGGCTCTATT[C/T]ATCCCTATTCTCTGA TCTTATGTCAGACCTGAAGTTCCCTCTAAATTTTCTGTGGTGATTTATA
WI-6449	186	C T ---	---	GAGGCCTCTTTGCTTTCTCAGTCAAGGCTGTATCCAGGGTTGATATCTAGCCTATATGCCATATGT GTATGGCTAGTGTGTTGTTCTGATTGGTTGGTCTCACACTGCCAGATTGTTAAATATTTTGAAAATC GTAICTGGTTCTATTTCATCTGCATCTCTGATCTTATGCTGGCTCTATT[C/T]ATCCCTATTCTCTGA TCTTATGTCAGACCTGAAGTTCCCTCTAAATTTTCTGTGGTGATTTATA

WI-6463	72 T C ---	---	GCTGGAGAGAAAAGACCTCCAAAAGAAAGAACTAAATCAGAGTCTCTTGAGCAAGAGGAATTGAAA AGAACA[T/C]JTGAAGAAAAATTAAGTAGAACTCAAGAGCCAAAAGTCCCCAAATTGTGTCCATT TAAGAAAATATTTGAATGGAATCTTAAGAATGATTTTATTGATCAGTTAAATGTTCTTCTCTCTCCTC CAGTCCCATTTATATGACATTCGGCATGCTG
WI-6474b	76 C T ---	---	AAGCAGTAAATCTTCCATCATGCCATGGATGCCAGTGGGTAAATGTTATAGAAACTTCAGAGGANAC AGAGGCAAA[C/T]GTGGTTATAGCAGTCAACGACATCATCAATGAAGACATGACTTGCTTAGAGCC AAGAAAAAGTAGGATTTGAAAGGCACAGAGAAAAGGGGTGTTACTAGAGGAGAACTATGTAAGCAG AGGTATAGAGGAACTAAAGTATAAAGAGTGAGCCATAACTTAGGGTACCATAA
WI-6474	76 C T ---	---	AAGCAGTAAATCTTCCATCATGCCATGGATGCCAGTGGGTAAATGTTATAGAAACTTCAGAGGANAC AGAGGCAAA[C/T]GTGGTTATAGCAGTCAACGACATCATCAATGAAGACATGACTTGCTTAGAGCC AAGAAAAAGTAGGATTTGAAAGGCACAGAGAAAAGGGGTGTTACTAGAGGAGAACTATGTAAGCAG AGGTATAGAGGAACTAAAGTATAAAGAGTGAGCCATAACTTAGGGTACCATAA
WI-6478b	175 T A ---	---	GAACTCAATTAACTTGCAACACTGAGAAAATCGGATTTGGAGATCTGCAAGCTGAGGTTGAGATT TTGGACCTTGGTGATCCAAATGGGAATGCCAGCTCGAGGCCGTGCTATATGCTTTATTTTGTGA CACTGCTATTTACCTCCCTCCCAATAGTGGAGAAATCAGAGT[A/G]CTCCTTGTCAAGTGTGCTACAGA GAAGATACAGGATGGAAAGGACAGCTCCTGTAGGACCTAGACACAACCTG
WI-6478	175 T A ---	---	GAACTCAATTAACTTGCAACACTGAGAAAATCGGATTTGGAGATCTGCAAGCTGAGGTTGAGATT TTGGACCTTGGTGATCCAAATGGGAATGCCAGCTCGAGGCCGTGCTATATGCTTTATTTTGTGA CACTGCTATTTACCTCCCTCCCAATAGTGGAGAAATCAGAGT[A/G]CTCCTTGTCAAGTGTGCTACAGA GAAGATACAGGATGGAAAGGACAGCTCCTGTAGGACCTAGACACAACCTG
WI-6559	149 G A ---	---	CACATTTTGAATGCAACTGAGAAANTGGTTTNTAGGCCCTACCTTTTATTAAGAGTACATCTGGCTC CAATGTTACCCCAACATGCAAAACATAAGGCAACAATCTGATCATTTTATAGNTCCCAAGCCCA TTAGCAATATCTTA[G/A]TCAAATTTTAAAGAGAGAACAGGAAATAAGGAAGGCCCTAACAGAGGAG TTAAATAATTGTGCAAAACTTATCAGTTCTTC
WI-6564b	54 G A ---	---	TTCTTTATTGGTCTACCAATGTGACTCTTTACCCAGGCCCACTGTCTCTATGC[G/A]CACTGGCTTTG TAGGCATTCACATCATATGCTGTGCTGCTGAAATCTCAATTAATTTCTCCTNCCTATTCCTTTCCAT GCTCTGCCTCATTTNCTCAGAAATGAAGGCATTGATTATNATTTTTTTTGGGTCTGTGTAAG GTTCTTGGCAGGAGAACATGCATATGACTTTTAAATAAGACCAACA
WI-6564	54 G A ---	---	TTCTTTATTGGTCTACCAATGTGACTCTTTACCCAGGCCCACTGTCTCTATGC[G/A]CACTGGCTTTG TAGGCATTCACATCATATGCTGTGCTGCTGAAATCTCAATTAATTTCTCCTNCCTATTCCTTTCCAT GCTCTGCCTCATTTNCTCAGAAATGAAGGCATTGATTATNATTTTTTTTGGGTCTGTGTAAG GTTCTTGGCAGGAGAACATGCATATGACTTTTAAATAAGACCAACA

WI-6608b	46 C	---	---	CTAATCACAGTAGCACTGAACATGGCTCTAGTGGTGGGCTCAGT[C/- JAGTTGAGGAGCTAAAGGAGGGGATTTCTCCTAGTCTCCCTAGAGCTAAATATGCATCTGG GAAAAATTAGGCTCTGGAGCACAGAGGATTTTCTAGAGGAAAAAGAACTGAACCTCCAGCACTAG GTAAACTGCAAAAAAGAAAAACACCTGTGCCCAGGCACACTAGTACAAGGCCACACAGAAAAAGGAA AGC
WI-6608	46 C	---	---	CTAATCACAGTAGCACTGAACATGGCTCTAGTGGTGGGCTCAGT[C/- JAGTTGAGGAGCTAAAGGAGGGGATTTCTCCTAGTCTCCCTAGAGCTAAATATGCATCTGG GAAAAATTAGGCTCTGGAGCACAGAGGATTTTCTAGAGGAAAAAGAACTGAACCTCCAGCACTAG GTAAACTGCAAAAAAGAAAAACACCTGTGCCCAGGCACACTAGTACAAGGCCACACAGAAAAAGGAA AGC
WI-6666	68 C A	---	---	GTTAGACAGTATCCAGCAAAAAAGGTTATTTATACCTCTACTTTTCCAAAAACGAGGAAACCTCCCC A/C/AJAAATCCCATCAACACACAGTCATGCTGGAAGGCATCTGCTTACTCTGTTGGTTTCATGTAA ATGTTGGGGTGACTCATTCGCTCTCTCTNCTCAAGTTCAGGCTCTTGGGTAGACCAAACTA ATACACAATGTTAGAGCACACAAGAGA
WI-6670b	120 A G	---	---	AGATTAAACATAATTATCTAGGGGCCATGTAGGTTNGGAGGAGTGTCTTCTATCTGCAGCCAAA CAGAAATACCTGTAGTACAGCAAAACCGTCTCAACAGTAAGCACACAATGAAC/A/GJTTGTAGCCA GCATTGCCATTGAGGCGGAGTCAGGGTTTGTGGGCCAGAGTTAGACAATTTGGGGAATCTGA AAAAAAAGAAATACAGAAATTGTAACACAGACACAGAAATCTTGAAGGGAT
WI-6670	120 A G	---	---	AGATTAAACATAATTATCTAGGGGCCATGTAGGTTNGGAGGAGTGTCTTCTATCTGCAGCCAAA CAGAAATACCTGTAGTACAGCAAAACCGTCTCAACAGTAAGCACACAATGAAC/A/GJTTGTAGCCA GCATTGCCATTGAGGCGGAGTCAGGGTTTGTGGGCCAGAGTTAGACAATTTGGGGAATCTGA AAAAAAAGAAATACAGAAATTGTAACACAGACACAGAAATCTTGAAGGGAT
WI-6704c	33 T C	---	---	TTTGAAAAATAAATTCATGCACCAATGTTTTAACT/C/CACATATATCATACAGTGCAGGATTTATGA ACATACATAAAATCAAAATCATACCATATAAACGTTTACAATAAGTTTTTCATGACACACGGNCA CTATTGCTCTTTAAATATGGTTGTACATGTCATCATTAATCGATTCTTCTCCACATGGTTATTT CAATGCAAGANCCGATCAGCATGAAGAGTCTAGTACAAGATAGGCAGACATG
WI-6704b	33 T C	---	---	TTTGAAAAATAAATTCATGCACCAATGTTTTAACT/C/CACATATATCATACAGTGCAGGATTTATGA ACATACATAAAATCAAAATCATACCATATAAACGTTTACAATAAGTTTTTCATGACACACGGNCA CTATTGCTCTTTAAATATGGTTGTACATGTCATCATTAATCGATTCTTCTCCACATGGTTATTT CAATGCAAGANCCGATCAGCATGAAGAGTCTAGTACAAGATAGGCAGACATG
WI-6704	28 T C	---	---	TTTGAAAAATAAATTCATGCACCAATGTTTTAACT/C/JTAACTCACATATATCATACAGTGCAGGATTTATGA ACATACATAAAATCAAAATCATACCATATAAACGTTTACAATAAGTTTTTCATGACACACGGNCA CTATTGCTCTTTAAATATGGTTGTACATGTCATCATTAATCGATTCTTCTCCACATGGTTATTT CAATGCAAGANCCGATCAGCATGAAGAGTCTAGTACAAGATAGGCAGACATG

WI-6710	106 G A ---	---	CCATGGACAGTTTAAATTAGGAAGCTTCGACTTGTTAGATAACAGAGGAAGTCCAGTTATCTACCT ATTCTTTAAACACATTTTGT CAGGCTGGAATGATCCCG[AT]AGTAAACTCAACATCCACACCT GCATAACATCGCCTCCCAAGTGACTATTTATTACTGAGTCGACACAGGATGTCACCCAGTGAGCCTC ATCTCAGTCCAATGGAGGAGTTGACTTAGACCTTCCTTGGACAGGAAGGGTC
WI-6766b	148 G C ---	---	AAACAAATGGTGCAATTGCATAATATTTGTGGTCACAGTATAAAACAATAACAATTAGTTCATAAAC ATTGGATATGGACAAAAATACACANGATCCTTTCTTTGTCTACGGAAAAATNCTGCAGATCCTTATGT GCCACACTTAAAN[G/C]AAAGTCAACGTTTCTCTCTAGGNTCTGCACACATATTTATCACTGA GAATTTGGTCAACACAGTGGAGNGAACTTACCCAAATCCCAAGTTCCTCTCTC
WI-6766	148 G C ---	---	AAACAAATGGTGCAATTGCATAATATTTGTGGTCACAGTATAAAACAATAACAATTAGTTCATAAAC ATTGGATATGGACAAAAATACACANGATCCTTTCTTTGTCTACGGAAAAATNCTGCAGATCCTTATGT GCCACACTTAAAN[G/C]AAAGTCAACGTTTCTCTCTAGGNTCTGCACACATATTTATCACTGA GAATTTGGTCAACACAGTGGAGNGAACTTACCCAAATCCCAAGTTCCTCTCTC
WI-6787b	97 A G ---	---	ACAGATAAAGTCTTTATTTCCCTGTATGTTACATAAGAAAGTTCTTTACAGACTTTTTTTTATACA ATACTTGTGCAGCAATGTTCAAATTTTCAAC[G]TTTTACTGCATAAGATATCTTCATGTACAACTGT ATGCTTTGTCTTCTTGGAAAGGACGCGTTAAAGACCTATGATAAACACACATCCACATGACAAAGGA GAGTCAATAGGGCAGAGTAGANTACTCACAGGAAAGAGTAAATTCAGGT
WI-6793	105 C G ---	---	GAACCCACAGGTCCTGTTATTTTAAAGGAGCATTTACATTATGATAGCAAGTTTCAACACATTCA TCAACAAGGCGGCTTCAAATCAATCAGTCAACCCCG[CG]GAGTTAGAAAGTAGAGTCATGAGGAA GAGCTGCTGGCTGAGGAAGTAGGGTTAATGCCCTCTAATCCCCGAAAGGGGAGACTGAAGCCA GAGCCAGANTCCTGGCAATTCACCAGTTTCTCATCACAGGTAAAGGCAAC
WI-6810b	37 T C ---	---	CACAATAATAAAATCACTCCCTACCTTGAAAACTTTAT[TC]JAGAAGCATTTTAAATTTACAACACA AAGCTCAACGNACCTACAATAAGTCTAGTAGTCTGTTACNGCCCAAGGATAAGGCTGAACAATA AATTAACCCCTTTAAAAATGTCTATGNACAAGTACAATTTCTTTTGGTTCTGCAGAGCAATGACC ACTAAGNAATATTTTAAAGGCTGAACAGAAATCCAGCGGCAATGAAGTTAAT
WI-6810	37 T C ---	---	CACAATAATAAAATCACTCCCTACCTTGAAAACTTTAT[TC]JAGAAGCATTTTAAATTTACAACACA AAGCTCAACGNACCTACAATAAGTCTAGTAGTCTGTTACNGCCCAAGGATAAGGCTGAACAATA AATTAACCCCTTTAAAAATGTCTATGNACAAGTACAATTTCTTTTGGTTCTGCAGAGCAATGACC ACTAAGNAATATTTTAAAGGCTGAACAGAAATCCAGCGGCAATGAAGTTAAT
WI-6817b	145 C A ---	---	GCATGATTAAACCAGTGCAGAAAAATACCAAGTACATTGGTGAACGATGAGCTAGCTGTTCTAGTA TTTGCTTTTGTAAATCCAGTTAAGACCATCAGCATATACAACATCATCACTAACTCAACAATGTAGCT GCAGGGTAAC[CG]ATGTGGATACCCCTGTGTGCTCTACTNGCCTCCAAAGGCATTGAGGGATCATCA AAGATGTGGACACCTTGTTGTTCAAAICTTGTTGAGGTGCGGCTGTGTCAG

WI-6817	145 C A ---	---	---	GCATGATTAAACCAGTGCAGAAAAATACCAAGTACATTGGGTGAACGATGAGCTAGCTGTTCTAGTA TTTGCCTTTTGTAAATCCAGTTAAGACCATCAGCATATACAACATCATCACTAACTCAACAATGTAGCT GCAGGGTAAC[C/A]TGTGGATACCCTGTGTCTAGCTAGCTCCAAAGGCATTACAGGGGATCATCA AAGATGTTGGACACCTTGTTCAATCTTGGTTCAGGTGCGGCTGTGCAG
WI-6819b	221 C --- ---	---	---	GATGAAAGGCCATTTTATTTTCTCTAAATTTTAAATAGAAGACTTTTAAATGGAAGAACATTTAGTAC CATCATGTCAACCTGAATGCCAGCAATACCTCGACTTTTACACAGCAGGAAGCCTAGTAAAGCCC CGTCAGTAGTACACATTTCTCTATGGTCTTCAACAGTTTTCATATACAAAATTTTCTGCTATTTTG CTTAGCAACAGCAATAACTTTTGTGTTTCTATATGACACCTAATATCCAG
WI-6819a	175 G T ---	---	---	GATGAAAGCCATTTTATTTTCTCTAAATTTTAAATAGAAGACTTTTAAATGGAAGAACATTTAGTAC CATCATGTCAACCTGAATGCCAGCAATACCTCGACTTTTACACAGCAGGAAGCCTAGTAAAGCCC CGTCAGTAGTACACATTTCTCTATGGTCTTCAACAGTTTTCATATACAAAATTTTCTGCTATTT TTGCTTAGCAACAGCAATAACTTTTGTGTTTCTATATGACACCTAATAT
WI-6826b	154 A G ---	---	---	GCAAAAAGCTTTATTTGGCTCCAAACAATATCCCTTTTAAACTCCTCTCTCTCTGCTCAGTG GAACAACACATTTGAATTTTCAGATTTGCAGTTTATAGCATTTTTCCTAAGAACCATATAAATAC ATGCAAAACCTTGATACAT[AG]GAGCTTAAATAATATCAAAATGCAAAATATAGATTGGTGCACGTG TAAGCTGAATTGCAAAATATGGCAACACACACTGGACTGGGTATACGTTG
WI-6826	154 A G ---	---	---	GCAAAAAGCTTTATTTGGCTCCAAACAATATCCCTTTTAAACTCCTCTCTCTCTGCTCAGTG GAACAACACATTTGAATTTTCAGATTTGCAGTTTATAGCATTTTTCCTAAGAACCATATAAATAC ATGCAAAACCTTGATACAT[AG]GAGCTTAAATAATATCAAAATGCAAAATATAGATTGGTGCACGTG TAAGCTGAATTGCAAAATATGGCAACACACACTGGACTGGGTATACGTTG
WI-6857a	122 T C ---	---	---	AGTGCAAACTATTTGAACAAAAGTAAACTATGAGTCACAGCATTCAGCAAGACATCAGACACGGA AGAGTGAACAATATTCACCTAAGTAAATACAGCAGATGAGATGCTCTCACATGTA[T/C]ATTTAAT TATTCATGCTTTTCAATAGTCTTAGTCAACTTTCAGTGTAAATTCACAAAATATATAGCAGCTCA AACACAAATGCAGGAGCACAATGGCAAAGTTTGGCAACTGTTTGGGCTAAT
WI-6865	153 G A ---	---	---	TTATAGAATCTTATGGGGCATACGNGTAAATGAACGTGCAACCTTAAATCTAAACAAACAGCTTG TTTGTGGTTCGCTGAAATCCTCCCTGCTCACAACAGCCAGCTACTNGGTTTCTAAAAGACGTA ATTTTGCAGGCAAACTTC[G/A]TAGAGCCATTCGTGCAAGAAGGGAAGGAGAGCTGTTTGT TTACCTGTAGTATGAAGATATCTTTGGCTGTTAGAACTGAGCTCAATTA
WI-6909	73 C T ---	---	---	ATTGAAAACCTGGTTAGCAACAGATAAATACAAATAGAGCCTGGATATAAAAATGAGAGAAGATGC AGACTTA[C/T]AAGCTTATAGAGAAAAGTCAAAAAGGAGCAAGTTTGAATCAGATTTTATGATAC GGAAAAAAAATTTCCCTTTTGGCAACAGGATTTTCGAATATAAATCTGCCAGTGCCCAATCAG AAACACCATTTCCACAATATTTGCATGCCCTTAGTTGCCTATTTTATACATATC



WI-6910b	163 G T ---	---	CACTCAAAACCTTTATTGATTGATTACAAACGTACAAATATTTACAAAGTTTAGGCATTAAATCCCA TATTGACATGAATGCTGTGGAGAGTCTAAAAATAAATATGTGGACATAGCTTAATATACACATCAT GGCTCTTTACACTTAAGCCATTACCAATA[G/T]TGAGATGTAATGAGAAATTTAATGTGGTAGAAAA GTCAGAGTGGCTGACCAGTCCCGGACCTTCCATGTGAATGACTCTTCCTTGGC
WI-6915	144 A -- ---	---	GCTGTTTTTTTTTGTTTTTAAAGTGACACCTTGGCCTTGTGGCATTCTTCACATTATCTTACCC AAAGTGCTTTGGGCCCAGCCACTGACTGATTTAAACCAGAAATGTGTTTTAAACAATGTGGT CGTGGTAATTCAGGTGATTTTCTAATTTGGTAGTATTTTCAGATTTCCACAAAGAACATG TATTGCTTTGTAAATTTGAAAAAATCAACACAGGATAGTAAAGATAT
WI-6928b	175 T C ---	---	CAATCAAAAGTTCCAAAGTTCAAAGCTGGGATGAAAAGCCAGGCTTCTGACTTGCACCTGTGCAC ACTGGATTTTNCCTCTGATCCAGCTGCAGCTCCCATAGAAAGTTCACTCTTAATTTTCATGTCCCATG CTTGCTTGGTCCCTGTGAGGAAAGGGGTCAAGCTAAAGG[C/A]AAGTCTCTATAAGGATGGGTAGG TATCCTGGCAAGATATTTCTCTGAAATAGTAAACGTGACCTTAGAAGTTA
WI-6928	175 T C ---	---	CAATCAAAAGTTCCAAAGTTCAAAGCTGGGATGAAAAGCCAGGCTTCTGACTTGCACCTGTGCAC ACTGGATTTTNCCTCTGATCCAGCTGCAGCTCCCATAGAAAGTTCACTCTTAATTTTCATGTCCCATG CTTGCTTGGTCCCTGTGAGGAAAGGGGTCAAGCTAAAGG[C/A]AAGTCTCTATAAGGATGGGTAGG TATCCTGGCAAGATATTTCTCTGAAATAGTAAACGTGACCTTAGAAGTTA
WI-6955b	79 G A ---	---	TTTTATGAAACATTTGAGATCCCTCATATCACAGCACATCAATAAGCAGTATGTACATAGACTGA CTTTTATAGTAC[G/A]NGTCATGTCCCAAATCCCAATCCTAGGTAAAGATATCAAGTTACAAANTAC AAGTGCCGNTAATTAAACTATAGGTAGTATATTAAACAAAATGNGTTTTTNGCAAATTTATGTGAAAT AAGGCTTTAACCAAAGC
WI-6955	79 G A ---	---	TTTTATGAAACATTTGAGATCCCTCATATCACAGCACATCAATAAGCAGTATGTACATAGACTGA CTTTTATAGTAC[G/A]NGTCATGTCCCAAATCCCAATCCTAGGTAAAGATATCAAGTTACAAANTAC AAGTGCCGNTAATTAAACTATAGGTAGTATATTAAACAAAATGNGTTTTTNGCAAATTTATGTGAAAT AAGGCTTTAACCAAAGC
WI-6957	47 C G ---	---	AAACTAAAAACCCCTTATTGCTCCAGTGTGGCAAAATAGAAAAT[C/G]TTCAATTACATTAGG AAATCGGGTGGATAACGGAGTATAGTTATCCACTTAAGAAGCATCCAGTCAAAATATACAAAA ACAAATTCAGATTGCTTGGATCTTGGTCAATTTATGGCTTGAAGAACTGGATTTGAAACCACTTTAGG CTAAAAATAATGTATATGAATAATGCATAGACTGTGTATCTAGAAAATCATGC
WI-6996c	242 G T ---	---	ACTTCTAGTGCCTCTGTTACCACCACCTCTAATGCCCTCTGGTCGCCGACCTTCTGATGTCGGTAGGCCT TAAATCTGCCTGGGTCCTCCCTCTGCTTCAGACCCAGAGGAGAGAGCCGGCAGTTCCCTG CAGGAGAGAGGAGGGCTGCTGGACCCCAAGGCTCAGTCCCTCTGCTCTCAGGACCCCTGCTGCTGACT CTCTCCTGATGGTGGGCCCTCTGTGCTCTCTCTTCC[G/T]GTCGGATC

WI-6996b	242	G T	---	---	ACTTAGTGCCTCTGTTACACACCTCTAATGCCTCTGGTCGCCGCACTTCTGATGTCGGTAGGCCT TAAATCGCTGGCTCCCTCCCTCTGCTTCAGCACCCAGAGGAGAGAGCGCGGAGTTCCTTG CAGGAGAGAGGGGCTGCTGGACCCAGGCTCAGTCCCTCTGCTCTCAGGACCCCTGTCCTGACT CTCTCCTGATGTGGGCCCTCTGCTCTCTCTCTCCG[GTGTCGGATC
WI-6996	228	T G	---	---	ACTTAGTGCCTCTGTTACACACCTCTAATGCCTCTGGTCGCCGCACTTCTGATGTCGGTAGGCCT TAAATCGCTGGCTCCCTCCCTCTGCTTCAGCACCCAGAGGAGAGAGCGCGGAGTTCCTTG CAGGAGAGAGGGGCTGCTGGACCCAGGCTCAGTCCCTCTGCTCTCAGGACCCCTGTCCTGACT CTCTCCTGATGTGGGCCCTCTG[GTGCTCTCTCTCCGGTCGGATC
WI-7021b	112	G A	---	---	TGGGAGGACAGGGAGATGCTGCAGTTCCTCCAAAGAGAGGTTCTCCAGAGTCATCTACCTGAGTC CTGAAGCTCCCTGCTCTGAAAGCCACAGACAATATGGTCCAAAT[GA]CCCGACTGCACCTTCTGTG CTTCAGCTCTTCTTGACATCAAGGCTCTCCGTTCCACATCCACACAGCCAATCCAATTAATCAAACC ACTGTTATTAACAGATAAGCAACTTGGGAATGCTTATGTTACAGGTTA
WI-7021	108	A G	---	---	TGGGAGGACAGGGAGATGCTGCAGTTCCTCCAAAGAGAGGTTCTCCAGAGTCATCTACCTGAGTC CTGAAGCTCCCTGCTCTGAAAGCCACAGACAATATGGTCC[GA]ATGCCGACTGCACCTTCTGTG CTTCAGCTCTTCTTGACATCAAGGCTCTCCGTTCCACATCCACACAGCCAATCCAATTAATCAAACC ACTGTTATTAACAGATAAGCAACTTGGGAATGCTTATGTTACAGGTTA
WI-7056c	118	C T	---	---	GGCAGTAGGACCAACAGTGTGGGTTCTGCTGGACCTTGGAGAGCTGCATCCAGGATGCGGGTGG CCCTGCAGCCTCCTCCACCTCACCTCCATGACAGCGCTAAACGTTGGTGA[CT]GGTTGGGAGCCTCT GGGCTGTTGAAGTCACCTTGTGTGTTCCAAGTTTCCAAACACAGAAAGTCATTCCTCTTTTAA ATGGTGCTTAAGTCCAGCAGATGCCACATAAGGGGTTGCCATTTGATA
WI-7056b	118	C T	---	---	GGCAGTAGGACCAACAGTGTGGGTTCTGCTGGACCTTGGAGAGCCTGCATCCAGGATGCGGGTGG CCCTGCAGCCTCCTCCACCTCACCTCCATGACAGCGCTAAACGTTGGTGA[CT]GGTTGGGAGCCTCT GGGCTGTTGAAGTCACCTTGTGTGTTCCAAGTTTCCAAACACAGAAAGTCATTCCTCTTTTAA ATGGTGCTTAAGTCCAGCAGATGCCACATAAGGGGTTGCCATTTGATA
WI-7091b	153	A C	---	---	AATTCGCTGAAAAAGGAACTACCTATCCTTACATTTACCTACTATAATGTCCTTCTAACATCTTAGAG GTCCATGGAGAAGGCATATGGAGAACATGTTTATACTGCTCTATAAATAGTATTCCTCAATCACTGTG CTTAATTTAAATAGCATT[AC]TCTTATCATTTATCAGCCTTTTATGTAATTTCCAAAGTAAATATTA ACATATTATTCATTGGTCTCTCTTTTATCTGGTCTATATGAATGCTAT
WI-7091	153	A C	---	---	AATTCGCTGAAAAAGGAACTACCTATCCTTACATTTACCTACTATAATGTCCTTCTAACATCTTAGAG GTCCATGGAGAAGGCATATGGAGAACATGTTTATACTGCTCTATAAATAGTATTCCTCAATCACTGTG CTTAATTTAAATAGCATT[AC]TCTTATCATTTATCAGCCTTTTATGTAATTTCCAAAGTAAATATTA ACATATTATTCATTGGTCTCTCTTTTATCTGGTCTATATGAATGCTAT

[illegible]

WI-7175	194 C T ---	---	CTCTAGACTAGTGCCTTTACCTTTAATGAAGTGTGACAGGAAGCCCAAGGCAGTGTTCCTCACCA ATACTTCAGAGAAAGTCAGTTGGAGAAAATGAAGAAAAGGCTGGCTGAAATCACTATAACCATC AGTTACTGGTTTCAGTTGACAAAATATAATGGTTTACTGCTGTCAATTGTCCTATGCCTA[C/T]AGAT AATTTATTTGTATTTTGAATAAAAAACATTTGTACATTCCTGATACTGGG
WI-7178b	273 G A ---	---	TGATCAGGTCAGGGACTTGGACAGGAGTCAGTGTCTGGCTTTTCCTCTGAGCCCAGCTGCCTGGAG AGGGTCTCGCTGTCACTGGCTGGCTCTAGGGGAACAGACCAGTGACCCAGAAAAGCATAACACCA ATCCAGGGCTGGCTCTGCACCTAAGAGAAAATTTGCACCTAAATGAATCTCGTTCCCAAGAACTACCC CCTTTTCAGCTGAGCCCTGGGGACTGTTCCAAAGCCAGTGAATGTGAAGGAA
WI-7178	273 G A ---	---	TGATCAGGTCAGGGACTTGGACAGGAGTCAGTGTCTGGCTTTTCCTCTGAGCCCAGCTGCCTGGAG AGGGTCTCGCTGTCACTGGCTGGCTCTAGGGGAACAGACCAGTGACCCAGAAAAGCATAACACCA ATCCAGGGCTGGCTCTGCACCTAAGAGAAAATTTGCACCTAAATGAATCTCGTTCCCAAGAACTACCC CCTTTTCAGCTGAGCCCTGGGGACTGTTCCAAAGCCAGTGAATGTGAAGGAA
WI-7182b	116 A C ---	---	GCATATTTGGCAGCTTATTGCTTCGAAACCCAGCTGGTCACCAAAAGCTTGATATACAGAGAAGAAG AAGGCTCAAGAAATTTATTCACCAAGTTCTCTGCAACCCACTCTGAGCCT[AC/T]CTCTCCTCTATTT TACTTGGGCTGCCAATTACAGCCCCAGTTTCAGCTCAAGAGATGCCCTTAAGATAATTATGTGAGG CCACTTGGTAGCAAGAATGGCAGCTATTTCTGAGCCTAGTACCCCAATT
WI-7182	106 C A ---	---	GCATATTTGGCAGCTTATTGCTTCGAAACCCAGCTGGTCACCAAAAGCTTGATATACAGAGAAGAAG AAGGCTCAAGAAATTTATTCACCAAGTTCTCTGCAACCC[AC/T]CTGAGCCTATCTCTCCTCTATTT TACTTGGGCTGCCAATTACAGCCCCAGTTTCAGCTCAAGAGATGCCCTTAAGATAATTATGTGAGG CCACTTGGTAGCAAGAATGGCAGCTATTTCTGAGCCTAGTACCCCAATT
WI-7191b	273 T A ---	---	ATAATTGCTTGTGTTTCTAGCCTGGCAAGATATTTTCATAAAGAGGGATAACAATGCTGATTACTAC CTTTTAAAATATTTAGATAAATGCACAGCACACACACATCTAAGCATTAGTGATGGTAGC TGATGTCAGCTTCATGTGGATTTTAAGCACTCTAGAAACAATGAAGCTTCTTGGCATATTTTAAGGAG CTCCCAAAATGTTACCTATTAATTTGTAACCTCAGCAAGTAGAAGACCATTT
WI-7199c	112 T C ---	---	CCAGTGGTGAACAGAACCTCCCAAAATTTGAGTTGCACCTTCCCTGTGGCCTTATGAGCTCAGCCTC GCCTTGAGGTACCCACCGTCTGTCAGCTCCTTGACCTATGAGCT[TC/G]GGGGCCTGACTAGGAAAAGT TGGAGTTAAGGAGGAAATAGCATTCCTTAATGTTTGTGTTGGTCTGAAATTCCTCTTTATTAT AGTCTATAGTTTTACTCTCAGTTCTCACCATCATCATCTTGTCTAA
WI-7199b	112 T C ---	---	CCAGTGGTGAACAGAACCTCCCAAAATTTGAGTTGCACCTTCCCTGTGGCCTTATGAGCTCAGCCTC GCCTTGAGGTACCCACCGTCTGTCAGCTCCTTGACCTATGAGCT[TC/G]GGGGCCTGACTAGGAAAAGT TGGAGTTAAGGAGGAAATAGCATTCCTTAATGTTTGTGTTGGTCTGAAATTCCTCTTTATTAT AGTCTATAGTTTTACTCTCAGTTCTCACCATCATCATCTTGTCTAA

WI-7216c	237 T C ---	---	TGACACTAACACTCTAAITCAAGCGAATGTTGGAACACCATGACCTCCTCTGTGTGTCCTTTCTCCCC AAGGACAAAATGTAGAAAGATGTGAGATAACTTACTCAAGATCCCTCCAGAAAAATACGTATGT TTAAAAACCCCTTCTGCTATACATAGGAAAAGACACACATCCACCTAAAATGACTGTACTGTTTAA CTGTCAATTCCTCTGAGGCTAAACACAGTTTGTGTTTTCCTTGTAAATCACTT
WI-7216b	237 T C ---	---	TGACACTAACACTCTAAITCAAGCGAATGTTGGAACACCATGACCTCCTCTGTGTGTCCTTTCTCCCC AAGGACAAAATGTAGAAAGATGTGAGATAACTTACTCAAGATCCCTCCAGAAAAATACGTATGT TTAAAAACCCCTTCTGCTATACATAGGAAAAGACACACATCCACCTAAAATGACTGTACTGTTTAA CTGTCAATTCCTCTGAGGCTAAACACAGTTTGTGTTTTCCTTGTAAATCACTT
WI-7220b	147 A T ---	---	AGGATGATGCTCCAAAGGGGACCTTGAACCTATTCACCATTTTGTCTCTTTAAGCTGGCAACCCCA TCATTAAATAGCACATAAAATAGCAATCATATGGGATAAGTAGTACAGCTTCAGTAATCAATGGGCA GTGGCACTAGAAATJATCTTGAGCACAGTGAATGACCTATCCTGCAACATCTAATGGATCTCTA AAGGTAACAAACCCCTATAAATCTGGCTTACTGCACATATTTAGTGTTT
WI-7220	140 A T ---	---	AGGATGATGCTCCAAAGGGGACCTTGAACCTATTCACCATTTTGTCTCTTTAAGCTGGCAACCCCA TCATTAAATAGCACATAAAATAGCAATCATATGGGATAAGTAGTACAGCTTCAGTAATCAATGGGCA GTGGCACTAGAAATCTTGAGCACAGTGAATGACCTATCCTGCAACATCTAATGGATCTCTA AAGGTAACAAACCCCTATAAATCTGGCTTACTGCACATATTTAGTGTTT
WI-7226	232 C --- ---	---	GATCGAAATTTTCAGATGATTCGGAATTTTCATTCAGGTATTTGTAATAGTACATATATATGTATA TACATATCACCTCTATCTCTAAATTTTGTAAATGTTAACTGGCAGTAAGTCTTTTGTGATCATTT CCCTTTTCCATATAGGAAACATAATTTGAAGTGGCCAGATGAGTTTATCATGTCAGTGAAAAATAA TTACCCACAAATGCCACCACTAACTTAACGATTTCTTCACTTCTTGGGTTT
WI-7228b	254 G A ---	---	ATAGCTTCCAGATTACAAAGGCCAAGGTAATAGAAATGCATACCAGTAATGGCTCCAATTCATAA TATGTTCAACAGGAGATTACAAATTTTGTCTCTTCTTGTCTTGTATCTATTTAGTTGATTTTAAATTA CTTCTGAATAACGGGAGGATCAGAAGATATCTTTTGTGCTAGATTGCAAAATCTCCAATCCACA CATATTGTTTTAAATAAGAAATGTTATCCAACATTAAGATATCTCAATGTT
WI-7228a	163 G A ---	---	ATAGCTTCCAGATTACAAAGGCCAAGGTAATAGAAATGCATACCAGTAATGGCTCCAATTCATAA TATGTTCAACAGGAGATTACAAATTTTGTCTCTTCTTGTCTTGTATCTATTTAGTTGATTTTAAATTA CTTCTGAATAACGGGAGGATCAGAAAGATATCTTTTGTGCTAGATTGCAAAATCTCCAATCC ACACATATTGTTTTAAATAAGAAATGTTATCCAACATTAAGATATCTCAATGTT
WI-7233c	213 C T ---	---	CGATCGTACTGCCAGTAGCATTTGTCTGTCTGTCGGGCTTGTGTTGTACATTCATTTTCAATGTTTACA GATGTGAACCTTTATCCCTGTCACTAATATATATTTAAATTTTCTAGGAAGTCAAAAAATATAA TAAAGGTTGAGCCCTCTACTTCTTCTGCCCACCTTTTGTGGCAATATTAAGTGAAGTGAAGTGAATA GTGTAAGTATCCTTGTGCACAAAACCACTGCCAGATAACAGAGGGGCTG

WI-7233b	213	C T ---	---	CGATCGTACTGCCAGTAGCATTGTCTGTCTGTCGGTCTTGTTGTACATTCACATTTCAATTGTTACA GATGTGAACATTTATTCCTTGTCACATAATATTTAAATTAATTTCTAGGAAGTCAAAAAATATAA TAAAGGGTTAGCCCTCTACTTTCTTCTGACCCTTTTGTGGCAATATTAAGTGAACGTGCTAATA GTGTAAGTA[C/T]GTGCACAAAACCACTGCCAGATAACCCAGAGGGGCCTG
WI-7233	211	T C ---	---	CGATCGTACTGCCAGTAGCATTGTCTGTCTGTCGGTCTTGTTGTACATTCACATTTCAATTGTTACA GATGTGAACATTTATTCCTTGTCACATAATATTTAAATTAATTTCTAGGAAGTCAAAAAATATAA TAAAGGGTTAGCCCTCTACTTTCTTCTGACCCTTTTGTGGCAATATTAAGTGAACGTGCTAATA GTGTAAGT[C/A]GTGCACAAAACCACTGCCAGATAACCCAGAGGGGCCTG
WI-7238	128	T C ---	---	GGCTCTACAGACAGCTCACCATTTTGTCTGTATCTGTAAACACATTTTGTCTTAGTCTTTTCTTG TAAAAATTGATGTTCTTTAAATCGTTAATGTATAACAGGCTTATGTTTCAGTTTGTTT[C/J]CCGTT CTGTTTAAACAGAAAATAAAAGGAGTGAAGCTCTTTCTCATTTTCAAAAGTTGCTACCAGTGAT GCAGTAATTAGAACAAAGAAACATTCAGTAGAACATTTTATTGCCTA
WI-7252f	520	T C ---	---	CCACAGGATCCAGCCCAAGCGGCCCTCCCGCCCTTCCACTCGCAGCAGACGCCGGGACAGAG GCCTGCCCGGGCGCCAGCCCGGCCCTGGGCTCGAGGCTGCCCGGCCCTGGTCTCTGTGTCOG GACACTCCTAGAGAACGCAGCCCTAGAGCCCTGCCTGGAGCGTTTCTAGCAAGTGAGAGATGGGAG CTCCTCTCCTGGAGGATGCAGGTGGAACCTAGTCATTAGACTCCTCTCTCCA
WI-7252e	552	T C ---	---	CCACAGGATCCAGCCCAAGCGGCCCTCCCGCCCTTCCACTCGCAGCAGACGCCGGGACAGAG GCCTGCCCGGGCGCCAGCCCGGCCCTGGGCTCGAGGCTGCCCGGCCCTGGTCTCTGTGTCOG GACACTCCTAGAGAACGCAGCCCTAGAGCCCTGCCTGGAGCGTTTCTAGCAAGTGAGAGATGGGAG CTCCTCTCCTGGAGGATGCAGGTGGAACCTAGTCATTAGACTCCTCTCTCCA
WI-7252d	540	T C ---	---	CCACAGGATCCAGCCCAAGCGGCCCTCCCGCCCTTCCACTCGCAGCAGACGCCGGGACAGAG GCCTGCCCGGGCGCCAGCCCGGCCCTGGGCTCGAGGCTGCCCGGCCCTGGTCTCTGTGTCOG GACACTCCTAGAGAACGCAGCCCTAGAGCCCTGCCTGGAGCGTTTCTAGCAAGTGAGAGATGGGAG CTCCTCTCCTGGAGGATGCAGGTGGAACCTAGTCATTAGACTCCTCTCTCCA
WI-7252c	552	T C ---	---	CCACAGGATCCAGCCCAAGCGGCCCTCCCGCCCTTCCACTCGCAGCAGACGCCGGGACAGAG GCCTGCCCGGGCGCCAGCCCGGCCCTGGGCTCGAGGCTGCCCGGCCCTGGTCTCTGTGTCOG GACACTCCTAGAGAACGCAGCCCTAGAGCCCTGCCTGGAGCGTTTCTAGCAAGTGAGAGATGGGAG CTCCTCTCCTGGAGGATGCAGGTGGAACCTAGTCATTAGACTCCTCTCTCCA
WI-7252b	540	T C ---	---	CCACAGGATCCAGCCCAAGCGGCCCTCCCGCCCTTCCACTCGCAGCAGACGCCGGGACAGAG GCCTGCCCGGGCGCCAGCCCGGCCCTGGGCTCGAGGCTGCCCGGCCCTGGTCTCTGTGTCOG GACACTCCTAGAGAACGCAGCCCTAGAGCCCTGCCTGGAGCGTTTCTAGCAAGTGAGAGATGGGAG CTCCTCTCCTGGAGGATGCAGGTGGAACCTAGTCATTAGACTCCTCTCTCCA

WI-7252a	520 T C ---	---	CCACAGGATCCCAGCCCAAGGGCCCCCTCCGCCCCCTCCACTCGCAGCAGACGCCGGGACAGAG GCCTGCCGGGGCGCCAGCCCCCGCCCCCTGGGCTGGAGGCTGCCCGGGCCCCCTGGTCTGGTCCG GACACTCTAGAGAAGCAGCAGCCCTAGAGCCTGCCCTGGAGCGTTTCTAGCAAGTGAGAGAGATGGGAG CTCCTCTCCTGGAGGATGCAGGTGGAACCTCAGTCACTAGACTCCTCCTCCA
WI-7265m	252 T A ---	---	AAC TTGGTTATGTCAGTTCCTGTGTGTAGACAGTAAGGAAAAAAGGCATGCTATGTGTACGTGTTT TTTCCAGTATGTTTATTTGCCACCAAAAAAGTAATGCATTTTACCCATTCTGTGGTTCAATTGTAGTT TAAGGAAACCAAGCATATAGATGCATTAGTGATTTTGTATATATGTAAAAATATAACGATCTCTT AAAAATACCACAGTTTGTATTTTCTTTAAGGAGTAAAGATTTCCTTT/
WI-7265l	231 T A ---	---	AAC TTGGTTATGTCAGTTCCTGTGTGTAGACAGTAAGGAAAAAAGGCATGCTATGTGTACGTGTTT TTTCCAGTATGTTTATTTGCCACCAAAAAAGTAATGCATTTTACCCATTCTGTGGTTCAATTGTAGTT TAAGGAAACCAAGCATATAGATGCATTAGTGATTTTGTATATATGTAAAAATATAACGATCTCTT AAAAATACCACAGTTTGTATTTTCTTTAAGGAGTAAAGATTTCCTT
WI-7265k	121 T G ---	---	AAC TTGGTTATGTCAGTTCCTGTGTGTAGACAGTAAGGAAAAAAGGCATGCTATGTGTACGTGTTT TTTCCAGTATGTTTATTTGCCACCAAAAAAGTAATGCATTTTACCCATTCTGTGGTTCAATTGTAGTT GTTTAAAGGAAACCAAGCATATAGATGCATTAGTGATTTTGTATATATGTAAAAATATAACGATCT CTTAAAAATACCACAGTTTGTATTTTCTTTAAGGAGTAAAGATTTCCTT
WI-7265j	174 T A ---	---	AAC TTGGTTATGTCAGTTCCTGTGTGTAGACAGTAAGGAAAAAAGGCATGCTATGTGTACGTGTTT TTTCCAGTATGTTTATTTGCCACCAAAAAAGTAATGCATTTTACCCATTCTGTGGTTCAATTGTAGTT TAAGGAAACCAAGCATATAGATGCATTAGTGATTTTGTATATATGTAAAAATATAACGATCT CTTAAAAATACCACAGTTTGTATTTTCTTTAAGGAGTAAAGATTTCCTT
WI-7265i	227 T C ---	---	AAC TTGGTTATGTCAGTTCCTGTGTGTAGACAGTAAGGAAAAAAGGCATGCTATGTGTACGTGTTT TTTCCAGTATGTTTATTTGCCACCAAAAAAGTAATGCATTTTACCCATTCTGTGGTTCAATTGTAGTT TAAGGAAACCAAGCATATAGATGCATTAGTGATTTTGTATATATGTAAAAATATAACGATCTCTT AAAAATACCACAGTTTGTATTTTCTTTAAGGAGTAAAGATTTCCTT
WI-7265h	80 T A ---	---	AAC TTGGTTATGTCAGTTCCTGTGTGTAGACAGTAAGGAAAAAAGGCATGCTATGTGTACGTGTTT TTTCCAGTATGTTTATTTGCCACCAAAAAAGTAATGCATTTTACCCATTCTGTGGTTCAATTGTAGTT GTTTAAAGGAAACCAAGCATATAGATGCATTAGTGATTTTGTATATATGTAAAAATATAACGATCT CTTAAAAATACCACAGTTTGTATTTTCTTTAAGGAGTAAAGATTTCCTT
WI-7265g	170 T G ---	---	AAC TTGGTTATGTCAGTTCCTGTGTGTAGACAGTAAGGAAAAAAGGCATGCTATGTGTACGTGTTT TTTCCAGTATGTTTATTTGCCACCAAAAAAGTAATGCATTTTACCCATTCTGTGGTTCAATTGTAGTT TAAGGAAACCAAGCATATAGATGCATTAGTGATTTTGTATATATGTAAAAATATAACGATCT CTTAAAAATACCACAGTTTGTATTTTCTTTAAGGAGTAAAGATTTCCTT

WI-7265f	231 T A ---	---	AAC TTGGT TATGTCAGTTCCTGTGTAGACAGTAAGGAAAAAGGCATGCTATGTGTACGTGTTT TTTCCAGTATGTTTATTTGCCACCAAAAAGTAAATGCATTTTACCCATTCTGTGGTTCATTGTAGTT TAAGGAAACCAAGCATATAGATGCATTAGTGATTTTGTATATATGTAATAATAACGATCTCTT AAAAATACCACAGTTTGTATTTTCTTT/AJAGGAGTAAAGATTTGCCT
WI-7265e	227 T C ---	---	AAC TTGGT TATGTCAGTTCCTGTGTAGACAGTAAGGAAAAAGGCATGCTATGTGTACGTGTTT TTTCCAGTATGTTTATTTGCCACCAAAAAGTAAATGCATTTTACCCATTCTGTGGTTCATTGTAGTT TAAGGAAACCAAGCATATAGATGCATTAGTGATTTTGTATATATGTAATAATAACGATCTCTT AAAAATACCACAGTTTGTATTTTCTTTAAGGAGTAAAGATTTGCCT
WI-7265d	174 T A ---	---	AAC TTGGT TATGTCAGTTCCTGTGTAGACAGTAAGGAAAAAGGCATGCTATGTGTACGTGTTT TTTCCAGTATGTTTATTTGCCACCAAAAAGTAAATGCATTTTACCCATTCTGTGGTTCATTGTAGTT TAAGGAAACCAAGCATATAGATGCATTAGTGATTTTGTATATATGTAATAATAACGATCTCT CTTAAAAATACCACAGTTTGTATTTTCTTTAAGGAGTAAAGATTTGCCT
WI-7265c	170 T G ---	---	AAC TTGGT TATGTCAGTTCCTGTGTAGACAGTAAGGAAAAAGGCATGCTATGTGTACGTGTTT TTTCCAGTATGTTTATTTGCCACCAAAAAGTAAATGCATTTTACCCATTCTGTGGTTCATTGTAGTT TAAGGAAACCAAGCATATAGATGCATTAGTGATTTTGTATATATGTAATAATAACGATCTCT CTTAAAAATACCACAGTTTGTATTTTCTTTAAGGAGTAAAGATTTGCCT
WI-7265b	121 T G ---	---	AAC TTGGT TATGTCAGTTCCTGTGTAGACAGTAAGGAAAAAGGCATGCTATGTGTACGTGTTT TTTCCAGTATGTTTATTTGCCACCAAAAAGTAAATGCATTTTACCCATTCTGTGGTTCATTGTAGTT GTTTAAGGAAACCAAGCATATAGATGCATTAGTGATTTTGTATATATGTAATAATAACGATCTCT CTTAAAAATACCACAGTTTGTATTTTCTTTAAGGAGTAAAGATTTGCCT
WI-7265a	80 T A ---	---	AAC TTGGT TATGTCAGTTCCTGTGTAGACAGTAAGGAAAAAGGCATGCTATGTGTACGTGTTT TTTCCAGTATGTTTATTTGCCACCAAAAAGTAAATGCATTTTACCCATTCTGTGGTTCATTGTAGTT GTTTAAGGAAACCAAGCATATAGATGCATTAGTGATTTTGTATATATGTAATAATAACGATCTCT CTTAAAAATACCACAGTTTGTATTTTCTTTAAGGAGTAAAGATTTGCCT
WI-7281b	183 C ---	---	GATCACCCAGCCACAAAGCCCTTCGAGGGCCCTATACCATGGCCACCTTGGAGCAGAGACCAAGC ATCTTCCTGGGAAGTCTTCTGGCCAAAGTCTGGCCAGCCTGGCCCTGCAGGTCCTCCCATGAAGGCCA CCCCATGGTCTGATGGGCATGAAGCATCTCAGACTCTTGGCAAAAACGGAGTCCGCGAGCCGCGAG GTGTTGTGAAGACCACTCGTCTGTGTTGGGGTCTCTGCAAGAAGGCCTCCTC
WI-7281	171 C A ---	---	GATCACCCAGCCACAAAGCCCTTCGAGGGCCCTATACCATGGCCACCTTGGAGCAGAGACCAAGC ATCTTCCTGGGAAGTCTTCTGGCCAAAGTCTGGCCAGCCTGGCCCTGCAGGTCCTCCCATGAAGGCCA CCCCATGGTCTGATGGGCATGAAGCATCTCAGACTCTCAGACTCTTGGCAAAAACGGAGTCCGCGAGCCGCGAG CAGGTGTTGTGAAGACCACTCGTCTGTGTTGGGGTCTCTGCAAGAAGGCCT



WI-7282b	159 G C ---	---	TGTCACCTGGCACATTTCATTTCTCAGTTGAAGAAGAAAAATTTGAAAAATGTCCTTATGCTTTTAGA GTTGCAACTTAAGTATATTTGGTAGGGTGAAGTGTTCACCTCAAAATATGTCAACTNNNNNNNNNT AGGCCCTTTTCATAAAAAACCAAACTG/CJTAGCAAGATGCAAAATGATGGCAAAATCTGTGGTCTCCA GTTGGTTATCTGAATAGTGTACCAATTCACCAAGACAGTGTGAGATTGG
WI-7292	92 T C ---	---	CTTGATTACTCCACTGAGGTGGGAGCATCTCCAGTGTCCCAATATATATCTCCCCACTCCACTAC TCTCTCCTCCACTTCATTTTCCT/CJTTGTCCTTCTCTCTAATTCAGTGTGTTGGAGGCTGACTTG GGGACAACGTATTATTGATATTATGTCGTGTTTCCCTCTCCCAATAGAAGAAATAAGTCATGGAGCC TGAAGGGTGCCTAGTTGACTTACTGACAAAAGGCTCTAGTTGGGCTGA
WI-7301f	133 A G ---	---	AACTATGGCAGTGGTCTGTTATAGTAGTAGAGCGGGTATGGTGGTGGACCAGGATATGGAA ACCAAGGTGGTGGATATGGTGGCGGTGTTGGAGGATATGATTACAAATGAAGGAGGAAATTTTG AGJCGGTAGTAACATATGGTGGTGGGAACATAATGATTTTGGAAATTACAGTGGACAACAGCA ATCAAATTATGGACACATGAAGGGGGCAGTTTGGTGAAGAAGCTCGGGCAG
WI-7301e	94 T G ---	---	AACTATGGCAGTGGTCTGTTATAGTAGTAGAGCGGGTATGGTGGTGGACCAGGATATGGAA ACCAAGGTGGTGGATATGGTGGCGGTGTTGGAGGATATGATTACAAATGAAGGAGGAAATTTTGA TGACGGTAGTAACATATGGTGGTGGGAACATAATGATTTTGGAAATTACAGTGGACAACAGCAA TCAAATTATGGACACATGAAGGGGGCAGTTTGGTGAAGAAGCTCGGGCAG
WI-7301d	138 A G ---	---	AACTATGGCAGTGGTCTGTTATAGTAGTAGAGCGGGTATGGTGGTGGACCAGGATATGGAA ACCAAGGTGGTGGATATGGTGGCGGTGTTGGAGGATATGATTACAAATGAAGGAGGAAATTTTGA CGGTJAGTAACTATGGTGGTGGGAACATAATGATTTTGGAAATTACAGTGGACAACAGCAA TCAAATTATGGACACATGAAGGGGGCAGTTTGGTGAAGAAGCTCGGGCAG
WI-7301c	211 A C ---	---	AACTATGGCAGTGGTCTGTTATAGTAGTAGAGCGGGTATGGTGGTGGACCAGGATATGGAA ACCAAGGTGGTGGATATGGTGGCGGTGTTGGAGGATATGATTACAAATGAAGGAGGAAATTTTGA CGGTAGTAACATATGGTGGTGGGAACATAATGATTTTGGAAATTACAGTGGACAACAGCAATCA AATTATGGACJACJCATGAAGGGGGCAGTTTGGTGAAGAAGCTCGGGCAG
WI-7301b	182 C T ---	---	AACTATGGCAGTGGTCTGTTATAGTAGTAGAGCGGGTATGGTGGTGGACCAGGATATGGAA ACCAAGGTGGTGGATATGGTGGCGGTGTTGGAGGATATGATTACAAATGAAGGAGGAAATTTTGA CGGTAGTAACATATGGTGGTGGGAACATAATGATTTTGGAAATTACAGTGGACAACAGCAA TCAAATTATGGACACATGAAGGGGGCAGTTTGGTGAAGAAGCTCGGGCAG
WI-7301	88 G T ---	---	AACTATGGCAGTGGTCTGTTATAGTAGTAGAGCGGGTATGGTGGTGGACCAGGATATGGAA ACCAAGGTGGTGGATATGGTGGTGGTGGAGGATATGATTACAAATGAAGGAGGAAATTTT TGACGGTAGTAACATATGGTGGTGGGAACATAATGATTTTGGAAATTACAGTGGACAACAGCAA TCAAATTATGGACACATGAAGGGGGCAGTTTGGTGAAGAAGCTCGGGCAG

WI-7301	205 A C ---	---	AACTATGGCAGTGGTCTGGTTATAGTAGAGGGGGGTATGTGTGGTGGACCCAGGATATGGAA ACCAAGGTGGTGATATGGTGGCGGTGTTGGAGGATATGATGTTACAATGAAGGAGGAAATTTTGA CGGTAGTAACATATGGTGGTGGGAACATAATGATTTTGGAAATTACAGTGGACAACAGCAATCA AATTACTGGACACATGAAAGGGGGCAGTTTGGTGAAGAAGCTCGGGCAG
WI-7314c	49 G A ---	---	CTCTCCTTTTCTTCAGATCTGCTCCTGGGTTTAAATTTGGGAGGTCA[G/A]TTGTTCTACCTCACTG AGAGGGAACAGAAAGGATATTGCTTCTTTTCAGCAGTGTAATAAGTCAATTAAAACTTCCCAGG ATTCTTTGGACCCAGGAACAGCCATGTGGTCTTCTGTGCACTATGAACGCTTCTTCCCAGGA CAGAAAATGTAGTCTACCTTTATTTTATTAAACAAAACCTGTTTTT
WI-7314b	49 G A ---	---	CTCTCCTTTTCTTCAGATCTGCTCCTGGGTTTAAATTTGGGAGGTCA[G/A]TTGTTCTACCTCACTG AGAGGGAACAGAAAGGATATTGCTTCTTTTCAGCAGTGTAATAAGTCAATTAAAACTTCCCAGG ATTCTTTGGACCCAGGAACAGCCATGTGGTCTTCTGTGCACTATGAACGCTTCTTCCCAGGA CAGAAAATGTAGTCTACCTTTATTTTATTAAACAAAACCTGTTTTT
WI-7314	36 A G ---	---	CTCTCCTTTTCTTCAGATCTGCTCCTGGGTTTAA/GJTTGGGAGGTCAAGTGTCTACCTCACTG AGAGGGAACAGAAAGGATATTGCTTCTTTTCAGCAGTGTAATAAGTCAATTAAAACTTCCCAGG ATTCTTTGGACCCAGGAACAGCCATGTGGTCTTCTGTGCACTATGAACGCTTCTTCCCAGGA CAGAAAATGTAGTCTACCTTTATTTTATTAAACAAAACCTGTTTTT
WI-7321b	199 C T ---	---	ACTCAGGGAAGGGATGCCCCATTAAAGTGACAAAAGGGTGGGGTGGGCACCATGGCATGAGGAAG AAACAAGGTCCCTGAGCAGGCAAGTCTGACAGTCAAGGGAGTCTTTGGCATCCAGGCTCCA GTCACCTCACTGCCATACATTAGAAATGAGACAATCAAGNNNNNNNAGGGTGGCACACCCATC[C /T]GTTTGTGGGTGTGGCAGCCACATCCAAAGACTGGAGCAGCGCTGGCCA
WI-7321	199 C T ---	---	ACTCAGGGAAGGGATGCCCCATTAAAGTGACAAAAGGGTGGGGTGGGCACCATGGCATGAGGAAG AAACAAGGTCCCTGAGCAGGCAAGTCTGACAGTCAAGGGAGTCTTTGGCATCCAGGCTCCA GTCACCTCACTGCCATACATTAGAAATGAGACAATCAAGNNNNNNNAGGGTGGCACACCCATC[C /T]GTTTGTGGGTGTGGCAGCCACATCCAAAGACTGGAGCAGCGCTGGCCA
WI-7336b	248 A C ---	---	AGACATTCTCGTTCCTGAAAGACTGAAGAAAGTGTAGTGCATGGGACCCACGAAACTGCCCTGGC TCCAGTGAAACTTGGGCACATGCTCAGGCTACTATAGGTCCAGAAGTCTTATGTAAGCCTGGCAG GCAGGTGTTTATTAATAATCTGAATTTGGGATTTTCAAAGATAATATTTACATACACTGTATGT TATAGAACTTCATGGATCAGATCTGGGGCAGCAACCTATAAATCA[A/C]CA
WI-7338c	221 A G ---	---	CTCTTCTCAGCACATTGATGGGCAACTAGAAATTACAGCAGTTTCAAACCTACCATGGATAATGCA AACAAACCGAAGCTACATGCCAATGATAGGTGCAAGAATATTGGCAAAAGGTGCTTTACCTTGAGC CATTATTTGTGTCAGAGAACAAAGAAACAGAAATCAATATATAAATTCAAAGACTATCTGCAGCTA GTGTGTTCTTCTTTACACAC[A/G]TATACACACAGACATCAGAAAATTCGTGT

WI-7338b	125	A C ---	---	CTCTTTCTCAGCACATTGATGGGCAACTAGAAATTACAGCAGTTTCAAACCTCTACCATGGATAATGCA AACAAACCGAAGCTACATGCCAATGATAGGTGCAAGAATATTGGCAAAAGGTGCTTT[A/C]CCTTG AGCCATTATTTGTGCAGAGAACAAAGAAACAGAAATCAATATATAAATTCAAAGACTATCTGCAG CTAGTGTGTTCTTCTTTACACATATACACACAGACATCAGAAAAATTCGTGTT
WI-7338	125	A C ---	---	CTCTTTCTCAGCACATTGATGGGCAACTAGAAATTACAGCAGTTTCAAACCTCTACCATGGATAATGCA AACAAACCGAAGCTACATGCCAATGATAGGTGCAAGAATATTGGCAAAAGGTGCTTT[A/C]CCTTG AGCCATTATTTGTGCAGAGAACAAAGAAACAGAAATCAATATATAAATTCAAAGACTATCTGCAG CTAGTGTGTTCTTCTTTACACATATACACACAGACATCAGAAAAATTCGTGTT
WI-7338	221	A G ---	---	CTCTTTCTCAGCACATTGATGGGCAACTAGAAATTACAGCAGTTTCAAACCTCTACCATGGATAATGCA AACAAACCGAAGCTACATGCCAATGATAGGTGCAAGAATATTGGCAAAAGGTGCTTTACCTTGAGC CATTATTTGTGCAGAGAACAAAGAAACAGAAATCAATATATAAATTCAAAGACTATCTGCAGCTA GTGTTGTTCTTCTTTACACAC[A/G]TATACACACAGACATCAGAAAAATTCGTGTT
WI-7384c	146	T A ---	---	CCATGTCAATGAAATGCTAGGGGGCCAGGGAACAAAAATTTAAAAATAATAAAATTCACCATAG CAATACAGAAATACTTTAAATACCATTAATACATTGTATTTGATTTGTAACAGGATTTTCTTCA CAGATCTCATTTT[A/J]AAAAATCTTAATGATTATTTTATTACTACTGTGTTTAAAGGGATGTTA TTTTAAAGCATATACCATACACTTAAGAAATTTGAGCAGAAATTTAAAAAGAA
WI-7384b	146	T A ---	---	CCATGTCAATGAAATGCTAGGGGGCCAGGGAACAAAAATTTAAAAATAATAAAATTCACCATAG CAATACAGAAATACTTTAAATACCATTAATACATTGTATTTGATTTGTAACAGGATTTTCTTCA CAGATCTCATTTT[A/J]AAAAATCTTAATGATTATTTTATTACTACTGTGTTTAAAGGGATGTTA TTTTAAAGCATATACCATACACTTAAGAAATTTGAGCAGAAATTTAAAAAGAA
WI-7384	145	T A ---	---	CCATGTCAATGAAATGCTAGGGGGCCAGGGAACAAAAATTTAAAAATAATAAAATTCACCATAG CAATACAGAAATACTTTAAATACCATTAATACATTGTATTTGATTTGTAACAGGATTTTCTTCA CAGATCTCATTTT[A/J]AAAAATCTTAATGATTATTTTATTACTACTGTGTTTAAAGGGATGTTA TTTTAAAGCATATACCATACACTTAAGAAATTTGAGCAGAAATTTAAAAAGAA
WI-7388c	106	A T ---	---	TGAAATCCTGGGTCTCTGGCCTGCTCTAGCTGGTTATTTTACTTTGCCCCCTCCACATTTT TGAGATCCATCCTTTATCAAGAACTGAAGCGACT[A/J]TAAAGGTTTTGAATTCAGATTTAAAA ACCACTTATAAGCATTCGAACAAGTTACCTCTATTTGCCACAAGCGTCTCGGGATTGTGTTGA CTTGCTGTCTCCAGAAGACTTTTCCCCCAAGATGTGTATAGTTATTGG
WI-7388b	106	A T ---	---	TGAAATCCTGGGTCTCTGGCCTGCTCTAGCTGGTTATTTTACTTTGCCCCCTCCACATTTT TGAGATCCATCCTTTATCAAGAACTGAAGCGACT[A/J]TAAAGGTTTTGAATTCAGATTTAAAA ACCACTTATAAGCATTCGAACAAGTTACCTCTATTTGCCACAAGCGTCTCGGGATTGTGTTGA CTTGCTGTCTCCAGAAGACTTTTCCCCCAAGATGTGTATAGTTATTGG

WI-7388	94 T A ---	---	TGAAATCCTGGGTCCTGGCCTGTCCTGTAGTGGTTATTTTACTTTGCCCCCTCCCCACTTTTTT TGAGATCCATCCTTTATCAAGAAGT/AJCTGAAGCGACTATAAAGGTTTTTGAATTCAGATTTTAAAA ACCAACTATAAGCAATTGCAACAAGGTACCTCTATTTTGGCCACAAGCGTCTCGGGATTGTGTTTGA CTTGCTGTCTGTCGAAGAACCTTTTCCCCCAAGATGTGTATAGTTATTGG
WI-7438	64 A G ---	---	TTAGATTTTAATTGGCAACCAGCAACTCACTGCCACCATTCCACTGCAGATCTNCTATTCCTGG[A/G] GTTGATATGACAAGGAACCCTATTGGAACCAAGTCTTCAGATTGNNCCATGTGCAGACAGGCTCCT TGCTGTAGGTGTAGTAGCATGTACACTGTACTGTTCACTGTAAACATAGTTTGTNCTGGTATTTGTTA TTGGAATGAATATCGCTTCCACTGACITTTTACCA
WI-7454b	152 T C ---	---	CCATGATCCCCCTCCTCTTGCCAAATGGAGGAAGCCTGTGGATGGTACCAACAACAAGCCCCAAACC CAGTACAAACTGAGAAATGAGAGAACCTGTATAGCACTGTCTGAATGGCAGGAGCCTCCAAGGCTAA TCCTACCCCTGGATTCTT/CJTGTGTTTAAAGTTATTTCTAGCCACCACAAGAGGGTACTGCCCCAA CAGACTCATCCTTAAAAAATCCCATTTGTCTACTTCTCAAAATGTTTTGACA
WI-7454	152 T C ---	---	CCATGATCCCCCTCCTCTTGCCAAATGGAGGAAGCCTGTGGATGGTACCAACAACAAGCCCCAAACC CAGTACAAACTGAGAAATGAGAGAACCTGTATAGCACTGTCTGAATGGCAGGAGCCTCCAAGGCTAA TCCTACCCCTGGATTCTT/CJTGTGTTTAAAGTTATTTCTAGCCACCACAAGAGGGTACTGCCCCAA CAGACTCATCCTTAAAAAATCCCATTTGTCTACTTCTCAAAATGTTTTGACA
WI-7464c	177 G C ---	---	AATTTGAAAATCTGAAAAAAGTGCAATAAGCAGAGAGAAATGACACTTATTCCAAATAAAATAAATTGT CCATTTTTCAGTCAGTCCATCTTAACCATGTACAATGCACATAAATCTATTTATAATTCCTATGTA CAACAGAGCCACAGCACAGAGGGTGGCATAAGCAGTTGCCA[G/C]CCAGAAGAGCTTTCACTCAT GAAAGAAAGCCCTACAAATAGGCCCCAGGAGAGCAACGTTCAACCAACAATTAT
WI-7464b	168 C A ---	---	AATTTGAAAATCTGAAAAAAGTGCAATAAGCAGAGAGAAATGACACTTATTCCAAATAAAATAAATTGT CCATTTTTCAGTCAGTCCATCTTAACCATGTACAATGCACATAAATCTATTTATAATTCCTATGTA CAACAGAGCCACAGCACAGAGGGTGGCATAAG[C/A]AGTTGCCAGCCAGAAGAGCTTTCACTCAT GAAAGAAAGCCCTACAAATAGGCCCCAGGAGAGCAACGTTCAACCAACAATTAT
WI-7464a	103 C A ---	---	AATTTGAAAATCTGAAAAAAGTGCAATAAGCAGAGAGAAATGACACTTATTCCAAATAAAATAAATTGT CCATTTTTCAGTCAGTCCATCTTAACCATGTACAATG[C/A]ACTAAATCTATTTATAATTCCTAT GTACAACAGAGCCACAGCACAGAGGGTGGCATAAGCAGTTGCCAGCCAGAAGAGCTTTCACTCAT GAAAGAAAGCCCTACAAATAGGCCCCAGGAGAGCAACGTTCAACCAACAATTAT
WI-7499b	134 T G ---	---	CAATTCTCAATCCAACTAGTCTGTNTGCCTAAACCATTCAGACAAAATCCACTTCGAAGGTTTTTA AATGCATAAGTCAGATAGCAATCCCTCAGTTGCCAGAGGCACATCAGTTCTTTGAATGCTTCAIT /GJTATAGTCCCTCTTCATTTAGCAATCAGTGAGGCAATACACTGGCATCATGATCCCTTTTTTAGGA ACTCTGTACAAAATCCCTTTGAAAATATAAATTTTGGAAATGAGTGATGA

WI-7499a	33 A G ---	---	CAATTCTCAATCCAACCTAGTCTGNTGCCTAA/GGCCATTCCAGACAACTTCCACTTCGAAGGTTTAAATGCATAAGTCAGATAGCAATCCTTCAGTTGCCCCAGAGGCACATCACGTTCTTTGAATGCTTCTATTAGTCTCTTCAATTTAGCAATCAGTGAGGCAATACACTGGCATCATGATCCCTTTTTTTTAGGAACTCTGTACAAAATCCCTTTGAAAATATAAATTTTGGAAATGAGTGATGA
WI-7506b	118 A C ---	---	TGGGAATAGTAAGAGAAAGATGGGAAAGGTGACCAAAAACAATATAGAGGCAGAGGCCAAGTGAATGCATCCCAGCAGCAGACCACCTTNAAGAGTAGTCTGGTGTGATTGCCTAGC/A/CJGGAGAGTTGAGTGCCACAGGTAAAGATGAGTGAAGAGGAAAAATCATGATGTCATGTCAGTAATTACTATGTCAGAAGAAAATATTTTAAAATATTGGACCACCTCTGTCTACCATCCCTAGCCACT
WI-7506	118 A C ---	---	TGGGAATAGTAAGAGAAAGATGGGAAAGGTGACCAAAAACAATATAGAGGCAGAGGCCAAGTGAATGCATCCCAGCAGCAGACCACCTTNAAGAGTAGTCTGGTGTGATTGCCTAGC/A/CJGGAGAGTTGAGTGCCACAGGTAAAGATGAGTGAAGAGGAAAAATCATGATGTCATGTCAGTAATTACTATGTCAGAAGAAAATATTTTAAAATATTGGACCACCTCTGTCTACCATCCCTAGCCACT
WI-7534b	143 C T ---	---	TGTGAATCTTAGCTCGGAAGGTGTTATGCCCTTTCGGGGTTCTTGATGTTCCGAGTGTCAOCCAAGAGTCAGAACTGTACACATCCCAAAATTTGGTGGCCGTGAACACATCCCGGTGATAGAATTGCTAAATTGTC/JGTGAATAGGTTAGAAATTTCTTTAAATATGGTTTCTTATTCTGTGAAAAATTCGGAGAGTGTCTGCTAAAAATGGATTGGTGTGATCTTTTGGTAGTTGTAATTT
WI-7534	135 T C ---	---	TGTGAATCTTAGCTCGGAAGGTGTTATGCCCTTTCGGGGTTCTTGATGTTCCGAGTGTCAOCCAAGAGTCAGAACTGTACACATCCCAAAATTTGGTGGCCGTGAACACATCCCGGTGATAGAATTGCT/CJAAATTCGTGAAATAGGTTAGAAATTTCTTTAAATATGGTTTCTTATTCTGTGAAAAATTCGGAGAGTGTCTGCTAAAAATGGATTGGTGTGATCTTTTGGTAGTTGTAATTT
WI-7543b	162 G A ---	---	GGGAAAGAATAAAATAGCTTGAGCAACCTGGCTAAGATAGAGGGGCTCTGGGAGACTTTGAAGACCAGTCTGTTGCAGGGAAGCCCACTTGAAGGAAGAAGTCTAAGAGTGAAGTAGGTGTGACTTGAAC TAGATTGCATGCTTCTCTCTTGGCTCTTGAAGAACCAAGCTTTCAGTGCAGCTTGAGTGGGTTCTCTGCAGCCCTCAGATTATTTTCCCTCTGGCTCCTTGGATGTAGTCAGTTA
WI-7543	162 G A ---	---	GGGAAAGAATAAAATAGCTTGAGCAACCTGGCTAAGATAGAGGGGCTCTGGGAGACTTTGAAGACCAGTCTGTTGCAGGGAAGCCCACTTGAAGGAAGAAGTCTAAGAGTGAAGTAGGTGTGACTTGAAC TAGATTGCATGCTTCTCTCTTGGCTCTTGAAGAACCAAGCTTTCAGTGCAGCTTGAGTGGGTTCTCTGCAGCCCTCAGATTATTTTCCCTCTGGCTCCTTGGATGTAGTCAGTTA
WI-7555c	60 T C ---	---	GGTGATCAAGATCTGTTCCACAGGGCTAATGCCACCATCTCCCTCAAAAATTTGTAGAGGT/CJCTA AAAAGAAAGTGGTATGTTGTGTGATGATCAGCACTAAGTCCTGCACTCTGTTAAAGCCACTTGGGTCATAAAGAGGGGAAGTAAAAATGAAGTCTGACTAGAAAATCTATTGCAGAGGCCAAGTACATTTAGTATGGCATTGAGTTGTGATATAGTTTTCATTTTGTGATGTGCAATTTTGAATTTTCAAG

[illegible]

WI-7576b	168 A T ---	---	AATGATGATGATAATGATGATGACGACGACAAACGATGATGCTTGTAACAAGAAACATAAGAGAGC CTTGGTTCAATCAGTGTAAAAAATTTTGAAGGCGGTACTAGTTTACAGACACTTTGGAAGTTTGTGT TCTGTTGTTAAACTGGCATCTGACACAAAAAA[A/T]GTTGAAGGCCTTATTCTACATTTACACTAC TTTGTAAGTGAGAGAGACAAAGAACAAANNNNNNNNNNNAAAGAAAAATAAAC
WI-7577g	77 T C ---	---	AACCATGTTCCCTTCTCTTAGCACCACAAATAATCAAAACCCCAACATAA[G/C]GTTTGCTTTCCTT TAAAAATATGCATCAAAATCGTCTCTCATTTCTCTGAGGGTTTGTAAACAGTAGGAGTTAAT AAAGAAAGTTCAATTTGGTTTACACGTAGGAAAGAGAGAACATCAAAAGTGGAGATATGTTAACTAT TGATAATGTGGCCTGTTATACATGACACTCTCTGAAATTGACTGTAATTC
WI-7577p	50 G C ---	---	AACCATGTTCCCTTCTCTTAGCACCACAAATAATCAAAACCCCAACATAAGTGTTCCTTCTTAA AAATATGCATCAAAATCGTCTCTCATTTCTCTGAGGGTTTGTAAACAGTAGGAGTTAATAA AGAAGTTCAATTTGGTTTACAC[G/A]TAGGAAAGAGAGAACATCAAAAGTGGAGATATGTTAACT ATTGTATAATGTGGCCTGTTATACATGACACTCTCTGAAATTGACTGTAATTC
WI-7577o	157 G A ---	---	AACCATGTTCCCTTCTCTTAGCACCACAAATAATCAAAACCCCAACATAAGTGTTCCTTCTTAA TAAAAATATGCATCAAAATCGTCTCTCATTTCTCTGAGGGTTTGTAAACAGTAGGAGTTAAT AAAGAAAGTTCAATTTGGTTTACACGTAGGAAAGAGAGAACATCAAAAGTGGAGATATGTTAACTAT TGATAATGTGGCCTGTTATACATGACACTCTCTGAAATTGACTGTAATTC
WI-7577n	48 A G ---	---	AACCATGTTCCCTTCTCTTAGCACCACAAATAATCAAAACCCCAACATAAGTGTTCCTTCTTAA TAAAAATATGCATCAAAATCGTCTCTCATTTCTCTGAGGGTTTGTAAACAGTAGGAGTTAAT AAAGAAAGTTCAATTTGGTTTACACGTAGGAAAGAGAGAACATCAAAAGTGGAGATATGTTAACTAT TGATAATGTGGCCTGTTATACATGACACTCTCTGAAATTGACTGTAATTC
WI-7577m	84 G A ---	---	AACCATGTTCCCTTCTCTTAGCACCACAAATAATCAAAACCCCAACATAAGTGTTCCTTCTTAA AAATATGCATCAAAATCGTCTCTCATTTCTCTGAGGGTTTGTAAACAGTAGGAGTTAAT AAAGAAAGTTCAATTTGGTTTACACGTAGGAAAGAGAGAACATCAAAAGTGGAGATATGTTAACTAT TGATAATGTGGCCTGTTATACATGACACTCTCTGAAATTGACTGTAATTC
WI-7577l	93 T C ---	---	AACCATGTTCCCTTCTCTTAGCACCACAAATAATCAAAACCCCAACATAAGTGTTCCTTCTTAA AAATATGCATCAAAATCGTCTCTCATTTCTCTGAGGGTTTGTAAACAGTAGGAGTTAAT AAAGAAAGTTCAATTTGGTTTACACGTAGGAAAGAGAGAACATCAAAAGTGGAGATATGTTAACTAT TGATAATGTGGCCTGTTATACATGACACTCTCTGAAATTGACTGTAATTC
WI-7577k	154 C A ---	---	AACCATGTTCCCTTCTCTTAGCACCACAAATAATCAAAACCCCAACATAAGTGTTCCTTCTTAA AAATATGCATCAAAATCGTCTCTCATTTCTCTGAGGGTTTGTAAACAGTAGGAGTTAATAA AGAAGTTCAATTTGGTTTACACGTAGGAAAGAGAGAACATCAAAAGTGGAGATATGTTAACT ATTGTATAATGTGGCCTGTTATACATGACACTCTCTGAAATTGACTGTAATTC

WI-7577i	117 A G ---	---	AACCATGTTCCCTTCTTTAGCACCAAAATAATCAAAACCCCAACATAAGTGTTCCTTCCTTTAA AAATATGCATCAAAATCGTCTCTCTATTCTCTGAGGGTTTAGTA/GACAGTAGGAGTTAAT AAAGAAGTTCAATTTGGTTTACACGTAGGAAAGAGAGAGCATCAAAGTGGAGATATGTTAACTAT TGTAATATGAGGCTGTTATACATGACACTCTCTCTGAATTGACTGTATTTC
WI-7577i	77 T C ---	---	AACCATGTTCCCTTCTTTAGCACCAAAATAATCAAAACCCCAACATAAGTGTTCCTTCCTTTAA AAATATGCA/T/CJCAAAATCGTCTCTCTATTCTCTGAGGGTTTAGTAACAGTAGGAGTTAAT AAAGAAGTTCAATTTGGTTTACACGTAGGAAAGAGAGAGCATCAAAGTGGAGATATGTTAACTAT TGTAATATGAGGCTGTTATACATGACACTCTCTCTGAATTGACTGTATTTC
WI-7577h	50 G C ---	---	AACCATGTTCCCTTCTTTAGCACCAAAATAATCAAAACCCCAACATAAGTGTTCCTTCCTTTAA TAAAAATATGCATCAAAATCGTCTCTCTATTCTCTGAGGGTTTAGTAACAGTAGGAGTTAAT AAAGAAGTTCAATTTGGTTTACACGTAGGAAAGAGAGAGCATCAAAGTGGAGATATGTTAACTAT TGTAATATGAGGCTGTTATACATGACACTCTCTCTGAATTGACTGTATTTC
WI-7577g	157 G A ---	---	AACCATGTTCCCTTCTTTAGCACCAAAATAATCAAAACCCCAACATAAGTGTTCCTTCCTTTAA AAATATGCATCAAAATCGTCTCTCTATTCTCTGAGGGTTTAGTAACAGTAGGAGTTAATAA AGAAGTTCAATTTGGTTTACAC/G/ATAGGAAAGAGAGAGCATCAAAGTGGAGATATGTTAACT ATTGTATAATGTGGCCTGTTATACATGACACTCTCTCTGAATTGACTGTATTTC
WI-7577f	48 A G ---	---	AACCATGTTCCCTTCTTTAGCACCAAAATAATCAAAACCCCAACATAAGTGTTCCTTCCTTTAA TAAAAATATGCATCAAAATCGTCTCTCTATTCTCTGAGGGTTTAGTAACAGTAGGAGTTAAT AAAGAAGTTCAATTTGGTTTACACGTAGGAAAGAGAGAGCATCAAAGTGGAGATATGTTAACTAT TGTAATATGAGGCTGTTATACATGACACTCTCTCTGAATTGACTGTATTTC
WI-7577e	84 G A ---	---	AACCATGTTCCCTTCTTTAGCACCAAAATAATCAAAACCCCAACATAAGTGTTCCTTCCTTTAA AAATATGCATCAAAATC[G/A]TCTCTCTATTCTCTCTGAGGGTTTAGTAACAGTAGGAGTTAAT AAAGAAGTTCAATTTGGTTTACACGTAGGAAAGAGAGAGCATCAAAGTGGAGATATGTTAACTAT TGTAATATGAGGCTGTTATACATGACACTCTCTCTGAATTGACTGTATTTC
WI-7577d	93 T C ---	---	AACCATGTTCCCTTCTTTAGCACCAAAATAATCAAAACCCCAACATAAGTGTTCCTTCCTTTAA AAATATGCATCAAAATCGTCTCTCTATTCTCTGAGGGTTTAGTAACAGTAGGAGTTAAT AAAGAAGTTCAATTTGGTTTACACGTAGGAAAGAGAGAGCATCAAAGTGGAGATATGTTAACTAT TGTAATATGAGGCTGTTATACATGACACTCTCTCTGAATTGACTGTATTTC
WI-7577c	154 C A ---	---	AACCATGTTCCCTTCTTTAGCACCAAAATAATCAAAACCCCAACATAAGTGTTCCTTCCTTTAA AAATATGCATCAAAATCGTCTCTCTATTCTCTGAGGGTTTAGTAACAGTAGGAGTTAATAA AGAAGTTCAATTTGGTTTAC/JACGTAGGAAAGAGAGAGCATCAAAGTGGAGATATGTTAACT ATTGTATAATGTGGCCTGTTATACATGACACTCTCTCTGAATTGACTGTATTTC



WI-7577b	117 A G ---	---	AACCATGTTCCCTTCTTAGCACCAAAATAATCAAAACCCCAACATAAAGTGTTCCTTTCCTTAA AAATATGCATCAAAATCGTCTCATTAATTTCTCTGAGGGTTTGTAGTA/GACAGTAGGAGTTAAT AAAGAAAGTTCAATTTTGGTTACACGTAGGAAAGAGAGAGCATCAAGTGGAGATATGTTAACTAT TGATAATGTGGCCTGTTATACATGACACTCTTCTGAATTGACTGTATTTC
WI-7577	107 G A ---	---	AACCATGTTCCCTTCTTAGCACCAAAATAATCAAAACCCCAACATAAAGTGTTCCTTTCCTTAA AAATATGCATCAAAATCGTCTCATTAATTTCTCTGAG/GA/GTTTTAGTAAACAGTAGGAGTTAAT AAAGAAAGTTCAATTTTGGTTACACGTAGGAAAGAGAGAGCATCAAGTGGAGATATGTTAACTAT TGATAATGTGGCCTGTTATACATGACACTCTTCTGAATTGACTGTATTTC
WI-7619q	106 C G ---	---	ACAAGGCGACTTGAAGAGGACGCGAGGCTTCCAGAGGACAAACCCCAATACAGGAGAACACAAGAC AGAGAAGGGCCCAATGGGTATCCCTCCCTAACGAGACTTC/GTCTGTGCTGGGGTGCTAATTAC ATGGCAGGAAGAAATGGGGCTCTAAGGGGAGTGTGGGTCTGTCTCCCTTTTTCATCTTTTCCCT CTCTCGCTTCTTCTTACACAGAAACATACACATACCGAGAAACCTATTTC
WI-7619p	150 T C ---	---	ACAAGGCGACTTGAAGAGGACGCGAGGCTTCCAGAGGACAAACCCCAATACAGGAGAACACAAGAC AGAGAAGGGCCCAATGGGTATCCCTCCCTAACGAGACTCTCTGTGCTGGGGTGCTAATTACATGG CAGGAAGAAATGGGGCTT/CJCTAAGGGGAGTGTGGGTCTGTCTCCCTTTTTCATCTTTTCCCTC TCTCGCTTCTTCTTACACAGAAACATACACATACCGAGAAACCTATTTC
WI-7619o	228 A G ---	---	ACAAGGCGACTTGAAGAGGACGCGAGGCTTCCAGAGGACAAACCCCAATACAGGAGAACACAAGAC AGAGAAGGGCCCAATGGGTATCCCTCCCTAACGAGACTCTCTGTGCTGGGGTGCTAATTACATGG CAGGAAGAAATGGGGCTCTAAGGGGAGTGTGGGTCTGTCTCCCTTTTTCATCTTTTCCCTCTCT CGCTTCTTCTTACACAGAAACAT/A/GJACATACCGAGAAACCTATTTC
WI-7619n	237 G C ---	---	ACAAGGCGACTTGAAGAGGACGCGAGGCTTCCAGAGGACAAACCCCAATACAGGAGAACACAAGAC AGAGAAGGGCCCAATGGGTATCCCTCCCTAACGAGACTCTCTGTGCTGGGGTGCTAATTACATGG CAGGAAGAAATGGGGCTCTAAGGGGAGTGTGGGTCTGTCTCCCTTTTTCATCTTTTCCCTCTCT CGCTTCTTCTTACACAGAAACATACACATACCGAGAAACCTATTTC
WI-7619m	99 C T ---	---	ACAAGGCGACTTGAAGAGGACGCGAGGCTTCCAGAGGACAAACCCCAATACAGGAGAACACAAGAC AGAGAAGGGCCCAATGGGTATCCCTCCCTAACGAGACTCTCTGTGCTGGGGTGCTAATTACATGG TGGCAGGAAGAAATGGGGCTCTAAGGGGAGTGTGGGTCTGTCTCCCTTTTTCATCTTTTCCCTC TCTCGCTTCTTCTTACACAGAAACATACACATACCGAGAAACCTATTTC
WI-7619l	189 T A ---	---	ACAAGGCGACTTGAAGAGGACGCGAGGCTTCCAGAGGACAAACCCCAATACAGGAGAACACAAGAC AGAGAAGGGCCCAATGGGTATCCCTCCCTAACGAGACTCTCTGTGCTGGGGTGCTAATTACATGG CAGGAAGAAATGGGGCTCTAAGGGGAGTGTGGGTCTGTCTCCCTTTTTCATCTTTTCCCTC TCTCGCTTCTTCTTACACAGAAACATACACATACCGAGAAACCTATTTC

WI-7619k	90 C G ---	---	ACAAGGCGACTTGAAGAGGACGCGAGGCTTCCAGAGGACAAACCCCAATACAGGAGAAGCACAAGAC AGAGAAGGGCCCAATGGGGTCATCC[G]CTCCCTAACGAGACTCTCTGTGCTGGGGTGCTAATTAC ATGGCAGGAAGAATGGGGCTCTAAGGGGAGTGGGGTCTCTCCCTTTTCCATCTTTTCCCT CTCTCGCTTTCTTACACAGAAACATACATACCGAGAAACCTATTTC
WI-7619j	206 T G ---	---	ACAAGGCGACTTGAAGAGGACGCGAGGCTTCCAGAGGACAAACCCCAATACAGGAGAAGCACAAGAC AGAGAAGGGCCCAATGGGGTCATCCCTCCCTAACGAGACTCTCTGTGCTGGGGTGCTAATTACATGG CAGGAAGAATGGGGCTCTAAGGGGAGTGGGGTCTCTCTCCCTTTTCCATCTTTTCCCTCTCT CGCT[G]TCTTCTTACACAGAAACATACATACCGAGAAACCTATTTC
WI-7619i	106 C G ---	---	ACAAGGCGACTTGAAGAGGACGCGAGGCTTCCAGAGGACAAACCCCAATACAGGAGAAGCACAAGAC AGAGAAGGGCCCAATGGGGTCATCCCTCCCTAACGAGACTCTCTGTGCTGGGGTGCTAATTAC ATGGCAGGAAGAATGGGGCTCTAAGGGGAGTGGGGTCTCTCTCCCTTTTCCATCTTTTCCCT CTCTCGCTTTCTTACACAGAAACATACATACCGAGAAACCTATTTC
WI-7619h	150 T C ---	---	ACAAGGCGACTTGAAGAGGACGCGAGGCTTCCAGAGGACAAACCCCAATACAGGAGAAGCACAAGAC AGAGAAGGGCCCAATGGGGTCATCCCTCCCTAACGAGACTCTCTGTGCTGGGGTGCTAATTACATGG CAGGAAGAATGGGGCTCTAAGGGGAGTGGGGTCTCTCTCCCTTTTCCATCTTTTCCCTCTCT TCTCGCTTTCTTACACAGAAACATACATACCGAGAAACCTATTTC
WI-7619g	228 A G ---	---	ACAAGGCGACTTGAAGAGGACGCGAGGCTTCCAGAGGACAAACCCCAATACAGGAGAAGCACAAGAC AGAGAAGGGCCCAATGGGGTCATCCCTCCCTAACGAGACTCTCTGTGCTGGGGTGCTAATTACATGG CAGGAAGAATGGGGCTCTAAGGGGAGTGGGGTCTCTCTCCCTTTTCCATCTTTTCCCTCTCT CGCTTTCTTCTTACACAGAAACAT[G]CACATACCGAGAAACCTATTTC
WI-7619f	237 G C ---	---	ACAAGGCGACTTGAAGAGGACGCGAGGCTTCCAGAGGACAAACCCCAATACAGGAGAAGCACAAGAC AGAGAAGGGCCCAATGGGGTCATCCCTCCCTAACGAGACTCTCTGTGCTGGGGTGCTAATTACATGG CAGGAAGAATGGGGCTCTAAGGGGAGTGGGGTCTCTCTCCCTTTTCCATCTTTTCCCTCTCT CGCTTTCTTCTTACACAGAAACATACATACCGAGAAACCTATTTC
WI-7619e	99 C T ---	---	ACAAGGCGACTTGAAGAGGACGCGAGGCTTCCAGAGGACAAACCCCAATACAGGAGAAGCACAAGAC AGAGAAGGGCCCAATGGGGTCATCCCTCCCTAACGAGACTCTCTGTGCTGGGGTGCTAATTACATGG TGGCAGGAAGAATGGGGCTCTAAGGGGAGTGGGGTCTCTCTCCCTTTTCCATCTTTTCCCTCTCT TCTCGCTTTCTTCTTACACAGAAACATACATACCGAGAAACCTATTTC
WI-7619d	189 T A ---	---	ACAAGGCGACTTGAAGAGGACGCGAGGCTTCCAGAGGACAAACCCCAATACAGGAGAAGCACAAGAC AGAGAAGGGCCCAATGGGGTCATCCCTCCCTAACGAGACTCTCTGTGCTGGGGTGCTAATTACATGG CAGGAAGAATGGGGCTCTAAGGGGAGTGGGGTCTCTCTCCCTTTTCCATCTTTTCCCTCTCT TCTCGCTTTCTTCTTACACAGAAACATACATACCGAGAAACCTATTTC

WI-7619c	90 C ---	---	ACAAGGGGACTTGAAGAGGACGACGGCTTCCAGAGGACAAACCCCAATACAGGAGAAAGCACAAGAC AGAGAAGGGCCCAATGGGTGCATCC[C/G]CTCCCTAACGAGACTCTGTGCTGGGGTGCTAATTAC ATGGCAGGAAGAATGGGGCTCTAAGGGGAGTGGGGTCTGTCTCCCTTTTCCATCTTTTCCCT CTCTCGCTTTCTTTCTACAGAAACATACACATACCGAGAAACCTATTTC
WI-7619b	206 T G ---	---	ACAAGGGGACTTGAAGAGGACGACGGCTTCCAGAGGACAAACCCCAATACAGGAGAAAGCACAAGAC AGAGAAGGGCCCAATGGGTGCATCCCTCCCTAACGAGACTCTGTGCTGGGGTGCTAATTACATGG CAGGAAGAATGGGGCTCTAAGGGGAGTGGGGTCTGTCTCCCTTTTCCATCTTTTCCCTCTCT CGC[T/G]TTCTTTCTACAGAAACATACACATACCGAGAAACCTATTTC
WI-7619	189 T A ---	---	ACAAGGGGACTTGAAGAGGACGACGGCTTCCAGAGGACAAACCCCAATACAGGAGAAAGCACAAGAC AGAGAAGGGCCCAATGGGTGCATCCCTCCCTAACGAGACTCTGTGCTGGGGTGCTAATTACATGG CAGGAAGAATGGGGCTCTAAGGGGAGTGGGGTCTGTCTCCCTTTTCCATCTTTTCCCTCTCT TCTCGCTTTCTTTCTACAGAAACATACACATACCGAGAAACCTATTTC
WI-7626d	105 A G ---	---	CCTTGTATGTGGAAGTATACCTGGCTTTTAAATATATGTATTTAAACAAAAAGCAACAGTAA TCTATGTGTTCTGTAAACAAATGGGATCTGTCTGGC[G/G]TTAAACACATCATGGACCAATGTG CCATACTAATGATGAGCATTTAGCACAAATTTGAGACTGAAATTTAGTACACTATGTTCTAGGTCAGT CTAACAGTTTGCCTGCTGTATTTATAGTAACCAATTTCCCTTTGGACTGTTC
WI-7626c	155 C T ---	---	CCTTGTATGTGGAAGTATACCTGGCTTTTAAATATATGTATTTAAACAAAAAGCAACAGTAA TCTATGTGTTCTGTAAACAAATGGGATCTGTCTGGCATTAAACACATCATGGACCAATGTGCA TACTAATGATGAGCAATTTAG[C/T]ACAATTTGAGACTGAAATTTAGTACACTATGTTCTAGGTCAGT CTAACAGTTTGCCTGCTGTATTTATAGTAACCAATTTCCCTTTGGACTGTTC
WI-7626b	28 T A ---	---	CCTTGTATGTGGAAGTATACCTGGCTTTTAAATATATGTATTTAAACAAAAAGCAACAGTAA TAATCTATGTGTTCTGTAAACAAATGGGATCTGTCTGGCATTAAACACATCATGGACCAATGTG CCATACTAATGATGAGCATTTAGCACAAATTTGAGACTGAAATTTAGTACACTATGTTCTAGGTCAGT CTAACAGTTTGCCTGCTGTATTTATAGTAACCAATTTCCCTTTGGACTGTTC
WI-7626	144 T C ---	---	CCTTGTATGTGGAAGTATACCTGGCTTTTAAATATATGTATTTAAACAAAAAGCAACAGTAA TCTATGTGTTCTGTAAACAAATGGGATCTGTCTGGCATTAAACACATCATGGACCAATGTGCA TACTAATGA[T/C]GAGCAATTTAGCACAAATTTGAGACTGAAATTTAGTACACTATGTTCTAGGTCAGT CTAACAGTTTGCCTGCTGTATTTATAGTAACCAATTTCCCTTTGGACTGTTC
WI-7689c	134 A G ---	---	TCCCATAAACCGCTGATTCAGGGTCTCTGCTGCCGCCACCCAGATGGGGGAAAGCAGGTGGGC TTCCAGTGGCTGCTGCCAGGCCAGACCTTCTAGGAGCCACCCAGCAAAAGTTGTTCTCTAA[A /G]TAAGGGCAGAGTCACACTGGGCAGCTGATACAAATTCAGACTGTGTAAGAGAGAGCTTAAT GATAATATTGTGGTGCCACAAATAAAATGGATTATTAGAATTTTCATATGAC

WI-7689b	134 A G ---	---	---	TCCATAACCGCTGATTCAGGGTCTCTGCTGCGGCCCCACCAGATGGGGAAAGCACAGGTGGGC TTCCAGTGGCTGCTGCCAGGGCCAGACCTTCTAGGACGCCACCAAGGTTGTCCTAAAI/A /GJTAAGGGCAGAGTCACACTGGGCGAGCTGATACAAATTGCAGACTGTGTAAAAAGAGAGCTTAAT GATAATATTGTGGTGCCACAAATAAAATGGATTATTAGAAATTCATAIGAC
WI-7689	121 G A ---	---	---	TCCATAACCGCTGATTCAGGGTCTCTGCTGCGGCCCCACCAGATGGGGAAAGCACAGGTGGGC TTCCAGTGGCTGCTGCCAGGGCCAGACCTTCTAGGACGCCACCAAGGTTGTCCTAA AATAAGGGCAGAGTCACACTGGGCGAGCTGATACAAATTGCAGACTGTGTAAAAAGAGAGCTTAAT GATAATATTGTGGTGCCACAAATAAAATGGATTATTAGAAATTCATAIGAC
WI-7690	45 G A ---	---	---	TGGAGAACATTCAATCTTGCCGTCACTATTCAATCAATGAAGATTAGJ/AJCACTGAGATCCAGAGAGG CTGGATGACTTGTCAAGTTCACAGCATGGTAGTGGCAAGAGAGTCCAGAGTCTGGCCCTTGAT GCCAGCTCAGTGCCACAAAGCTCAGTAGGAGGGATGTTCCAGTGGATGAGGGCCACCAGGAAGCAC AGGTCCAAGGCTGGTCCACACTTATCAGCAGCAACAACCTGTCAGTTCATCC
WI-7703b	164 T C ---	---	---	ACAGAAAAGTTGAATTTACATGGCTGGAGCTAGAATTTGATATGTGAACAGTTGTGTTGAAGCAC AGTGATCAAGTTATTTTAAATTTGGTTTTCACATTGGAACAAGTCAGTCATTGATATGATTCAAA TGCTATAAACCAAACTGATGTAAGTAAATJ/CJGGTCTCTCACTTGTTTATTTAACCTCTAAATCT TTCAATTTAGGGGTAGCATTTGTGTTGAAGAGGTTTAAAGCTTCCATTGT
WI-7703	156 T C ---	---	---	ACAGAAAAGTTGAATTTACATGGCTGGAGCTAGAATTTGATATGTGAACAGTTGTGTTGAAGCAC AGTGATCAAGTTATTTTAAATTTGGTTTTCACATTGGAACAAGTCAGTCATTGATATGATTCAAA TGCTATAAACCAAACTGATGJ/CJAGTAAATGGTCTCACTTGTTTATTTAACCTCTAAATCTCT TTCAATTTAGGGGTAGCATTTGTGTTGAAGAGGTTTAAAGCTTCCATTGT
WI-7743e	106 C A ---	---	---	TTAAATGAGTGTGTTGTACCCGTTGGGGATTGGGAAGACTGTGGCTGCTGGCACTTGGAGCCAAGG GTTTCAGAGACTCAGGGCCCCAGCACTAAAGCAGTGGACJ/AJCCAGGAGTCCCTGGTAATAAGTACT GTGTACAGAAATCTGTACCTCACTGGGTCTGGGGCTCGGAGCCTCATCCGAGGCAGGGTCAAGGA GAGGGCAGAACAGCCGCTCCTGTCTGCCAGCCAGCAGCCAGCTCTCAGCC
WI-7743d	275 C T ---	---	---	TTAAATGAGTGTGTTGTACCCGTTGGGGATTGGGAAGACTGTGGCTGCTGGCACTTGGAGCCAAGG GTTTCAGAGACTCAGGGCCCCAGCACTAAAGCAGTGGACJ/AJCCAGGAGTCCCTGGTAATAAGTACT TACAGAAATCTGTACCTCACTGGGTCTGGGGCTCGGAGCCTCATCCGAGGCAGGGTCAAGAGAG GGGCAGAACAGCCGCTCCTGTCTGCCAGCCAGCAGCCAGCTCTCAGCCAAAG
WI-7743e	106 C A ---	---	---	TTAAATGAGTGTGTTGTACCCGTTGGGGATTGGGAAGACTGTGGCTGCTGGCACTTGGAGCCAAGG GTTTCAGAGACTCAGGGCCCCAGCACTAAAGCAGTGGACJ/AJCCAGGAGTCCCTGGTAATAAGTACT GTGTACAGAAATCTGTACCTCACTGGGTCTGGGGCTCGGAGCCTCATCCGAGGCAGGGTCAAGGA GAGGGCAGAACAGCCGCTCCTGTCTGCCAGCCAGCAGCCAGCTCTCAGCC

WI-7743d	275 C T ---	---	TTAAATGAGTGTGTTTGTACCCGTTGGGATTGGGAAGACTGTGGCTGCTGGCACTTGGAGCCAAAGG GTTTCAGAGACTCAGGGCCCCAGCACTAAAGCAGTGGACCCAGGAGTCCCTGGTAATAAGTACTGTG TACAGAAATTCGTACCTACCTGGGGTCTGGGGCTCGAGCCTATCCGAGGAGGGTCAGGAGAG GGCAGAACAGCCGCTCCTGTCTGCCAGCCAGCAGCCAGCTCTCAGCCAAACG
WI-7743e	106 C A ---	---	TTAAATGAGTGTGTTTGTACCCGTTGGGATTGGGAAGACTGTGGCTGCTGGCACTTGGAGCCAAAGG GTTTCAGAGACTCAGGGCCCCAGCACTAAAGCAGTGGACCCAGGAGTCCCTGGTAATAAGTACTGTG TACAGAAATTCGTACCTACCTGGGGTCTGGGGCTCGAGCCTATCCGAGGAGGGTCAGGAGAG GAGGGCAGAACAGCCGCTCCTGTCTGCCAGCCAGCAGCCAGCTCTCAGCC
WI-7743d	275 C T ---	---	TTAAATGAGTGTGTTTGTACCCGTTGGGATTGGGAAGACTGTGGCTGCTGGCACTTGGAGCCAAAGG GTTTCAGAGACTCAGGGCCCCAGCACTAAAGCAGTGGACCCAGGAGTCCCTGGTAATAAGTACTGTG TACAGAAATTCGTACCTACCTGGGGTCTGGGGCTCGAGCCTATCCGAGGAGGGTCAGGAGAG GGCAGAACAGCCGCTCCTGTCTGCCAGCCAGCAGCCAGCTCTCAGCCAAACG
WI-7743c	106 C A ---	---	TTAAATGAGTGTGTTTGTACCCGTTGGGATTGGGAAGACTGTGGCTGCTGGCACTTGGAGCCAAAGG GTTTCAGAGACTCAGGGCCCCAGCACTAAAGCAGTGGACCCAGGAGTCCCTGGTAATAAGTACTGTG TACAGAAATTCGTACCTACCTGGGGTCTGGGGCTCGAGCCTATCCGAGGAGGGTCAGGAGAG GAGGGCAGAACAGCCGCTCCTGTCTGCCAGCCAGCAGCCAGCTCTCAGCC
WI-7743b	275 C T ---	---	TTAAATGAGTGTGTTTGTACCCGTTGGGATTGGGAAGACTGTGGCTGCTGGCACTTGGAGCCAAAGG GTTTCAGAGACTCAGGGCCCCAGCACTAAAGCAGTGGACCCAGGAGTCCCTGGTAATAAGTACTGTG TACAGAAATTCGTACCTACCTGGGGTCTGGGGCTCGAGCCTATCCGAGGAGGGTCAGGAGAG GGCAGAACAGCCGCTCCTGTCTGCCAGCCAGCAGCCAGCTCTCAGCCAAACG
WI-7743	106 C A ---	---	TTAAATGAGTGTGTTTGTACCCGTTGGGATTGGGAAGACTGTGGCTGCTGGCACTTGGAGCCAAAGG GTTTCAGAGACTCAGGGCCCCAGCACTAAAGCAGTGGACCCAGGAGTCCCTGGTAATAAGTACTGTG TACAGAAATTCGTACCTACCTGGGGTCTGGGGCTCGAGCCTATCCGAGGAGGGTCAGGAGAG GAGGGCAGAACAGCCGCTCCTGTCTGCCAGCCAGCAGCCAGCTCTCAGCC
WI-7743	275 C T ---	---	TTAAATGAGTGTGTTTGTACCCGTTGGGATTGGGAAGACTGTGGCTGCTGGCACTTGGAGCCAAAGG GTTTCAGAGACTCAGGGCCCCAGCACTAAAGCAGTGGACCCAGGAGTCCCTGGTAATAAGTACTGTG TACAGAAATTCGTACCTACCTGGGGTCTGGGGCTCGAGCCTATCCGAGGAGGGTCAGGAGAG GGCAGAACAGCCGCTCCTGTCTGCCAGCCAGCAGCCAGCTCTCAGCCAAACG
WI-7758	144 A G ---	---	TGACATTTATTCAAAGTTAAAGCAACACTTACAGAATTATGAAGAGGTATCTGTTTAAACATTTCC TCAGTCAAGTTCAGAGTCTTCAGAGACTTCGTAATTTAAAGGAACAGAGTGAGAGACATCATCAAGTG GAGAGAAATC/A/GTATGTTTAAACTGCATTATAAATTTTATAACAGAAATTAAGTAGATTTTAAAAA GATAAATGTGTAATTTGTTTATATTTTCCCATTTGGACTGTAACTGACTGCC

WI-7765b	126 G C ---	---	ACAGGGCCTTTGGCAGGTGCAGCCCCCAGCTGCCTTTGACCTGCCTCCCTTCATGCATGGAAATCCCT TCATCTGGAACCATCAGAAACACCCTCACACTGGGACTTGCAAAAGGTCAGTATGG[G/C]TAGG GAAAACATCCATCCTTGAGTCAAAAATCTCAATCTCCCTATCTTGCCACCCCTCATGCTGTGTG ACTCAAAACCAATCACTGAACCTTTGCTGAGCCTGTAATAAAAGGTCGGA
WI-7773b	237 C G ---	---	TTAATTTACTGATTCAGCAAGACCAAAATCATTGTATCAGATTATTTTAAAGTTTTATCCGTAGTTTT GATAAAAGATTTTCTATTCCTTGGTTCTGTGAGAACCTAATAAGTGTACTTTGCCATTAAAGGCA GACTAGGGTTTCATGCTTTTACCCCTTNNNNNNNNNTTGTAAAGTCTAGTTACCTACTTTTCTTT GATTTTCGACGTTTGACTAGCCATCTCAAGCA[C/G]TTTCGACGTTTGA
WI-7774b	170 T C ---	---	TGCAACCTCTTTTCGTGATGGGAGCCTGCTGGTCAGCACTCCAGTAGCGAGAGCGGACCCAGAAAT CAGATCCCAGCTTCGGCATTTGATCAGACCAACAGTGTCTCCCGGGGAGGAAACACTTTTTTAA TTACCCCTTTGCAGGACCACTTTAATCTGTTT[C]ATACCTTGCTTATTAATGAGCGACTTAAA ATGATTGAAAATAATGCTGTCTTTAGTAGCAAGTAAATGTCCTTGTCT
WI-7785c	165 G ---	---	GCAGAGACCTTCCAAGGACATATTGCAGGATTCTGTAAATAGTGAACATATGGAAGTATTAGAAATA TTTATTGTCTGTAAATCTGTAATGCATTGGAATAAACTGTCTCCCCCATTTGCTCTATGAAACTGC ACATTGGTCATTGTGAATANNNNNNNNNGCCAAAGGCTAATCCAAATTATTATTCACATTTACCA TAATTTATTTTGCCATTGATGTATTTATTTGTAAATGATCTTGTGTGCTGC
WI-7785b	165 G ---	---	GCAGAGACCTTCCAAGGACATATTGCAGGATTCTGTAAATAGTGAACATATGGAAGTATTAGAAATA TTTATTGTCTGTAAATCTGTAATGCATTGGAATAAACTGTCTCCCCCATTTGCTCTATGAAACTGC ACATTGGTCATTGTGAATANNNNNNNNNGCCAAAGGCTAATCCAAATTATTATTCACATTTACCA TAATTTATTTTGCCATTGATGTATTTATTTGTAAATGATCTTGTGTGCTGC
WI-7785	156 - T ---	---	GCAGAGACCTTCCAAGGACATATTGCAGGATTCTGTAAATAGTGAACATATGGAAGTATTAGAAATA TTTATTGTCTGTAAATCTGTAATGCATTGGAATAAACTGTCTCCCCCATTTGCTCTATGAAACTGC ACATTGGTCATTGTGAATANNN[- /JNNNNNNNGCCAAAGGCTAATCCAAATTATTATTCACATTTACCATAATTTATTTGTCCATTGA TGATTTATTTGTAAATGTATCTTGGTG
WI-7789c	84 G A ---	---	TCTCCCCCTCATCCAACTCCGAAAGTCTGAATCTCCCAAGGAGGCGCACCATCTTACAGAGACTCTCCC TGACGGTGAATTTAA[G/A]TTTAGGGTCCCTAAAGCATTTGACACACAGTTGTTGAATGACTGAC CCAAATGTGAATGAAGCTAATGTGAATGTGAGTGAAGCTCCCTTCAGGCCCGCTGCCCTAGGATAT GCCCTCCTGGTGACTCGGGGCTGTCTCAGACGACTAGCCAGGACCCATCT
WI-7789b	84 G A ---	---	TCTCCCCCTCATCCAACTCCGAAAGTCTGAATCTCCCAAGGAGGCGCACCATCTTACAGAGACTCTCCC TGACGGTGAATTTAA[G/A]TTTAGGGTCCCTAAAGCATTTGACACACAGTTGTTGAATGACTGAC CCAAATGTGAATGAAGCTAATGTGAATGTGAGTGAAGCTCCCTTCAGGCCCGCTGCCCTAGGATAT GCCCTCCTGGTGACTCGGGGCTGTCTCAGACGACTAGCCAGGACCCATCT

WI-7789	73 GA ---	---	TCTCCCTCATCCAACTCCGAAAGTCTGAATCTCCCAAGGAGGGACCACATCTTACAGAGACTCTCCC TGACG[G/A]TGGAAATTAAGTTTAGGGTCCCTAAAGCATTTGACACACAGTTGTTGAATGACTGAC CCAAAATGTGAATGAAGCTAATGTGAATGTAGTGAAGCTCCCTCAGGCCCGCTGCCCTAGGATAT GCCCTCCTGGTGACTCGGGGCTGTCTCAGACGACTAGCCAGGACCCATCT
WI-7790b	190 CT ---	---	AATTGTCAGTCACCTTCTCAAAACCTTACAGTCTTCTCAAGGTTACTCTTCATGAGATTCATCCATT TACTAATAGTATTTTTGGTGGACTAGGCTTGCCTATGTGCTTATGTAGCTTTTACTTTTATGG TGTGATTAATGGTGATCAAGGTAGGAAAAGTTGTGTTCTATTTCTTGAACCTC[G/T]TCTATACTTT AAGATACTCTATTTTTAAACACTATCTGCAAACTCAGGACACTTTAAG
WI-7790	190 CT ---	---	AATTGTCAGTCACCTTCTCAAAACCTTACAGTCTTCTCAAGGTTACTCTTCATGAGATTCATCCATT TACTAATAGTATTTTTGGTGGACTAGGCTTGCCTATGTGCTTATGTAGCTTTTACTTTTATGG TGTGATTAATGGTGATCAAGGTAGGAAAAGTTGTGTTCTATTTCTTGAACCTC[G/T]TCTATACTTT AAGATACTCTATTTTTAAACACTATCTGCAAACTCAGGACACTTTAAG
WI-7795b	81 CA ---	---	CAGATGTTCTGGTAAACTGATTGCTGGCAACAACAGATTCTCTGGCTCATATTTCTTTCTTCAT CTTGATGATGAT[C/A]GTGATCATCAAGAATTTAATGATTAATAGCATGCCCTTCTCTCTCTCT TAATAAGCCACATATAAATGACTTTTCTTCCAGAAAAATCTCCTTGAGGAAAAATGTCCAAAA TAAGATGAATCACTTAATACCGTATCTTCTAAATTTGAAATATAATTCTG
WI-7795	81 CA ---	---	CAGATGTTCTGGTAAACTGATTGCTGGCAACAACAGATTCTCTGGCTCATATTTCTTTCTTCAT CTTGATGATGAT[C/A]GTGATCATCAAGAATTTAATGATTAATAGCATGCCCTTCTCTCTCTCT TAATAAGCCACATATAAATGACTTTTCTTCCAGAAAAATCTCCTTGAGGAAAAATGTCCAAAA TAAGATGAATCACTTAATACCGTATCTTCTAAATTTGAAATATAATTCTG
WI-7814c	41 GA ---	---	TTCTCTCATTTTATCCCTCACCTGTAGCATGCCAGTCCC[G/A]TTTCATTTTAGTCATGTGACCCTC TGCTTTGTGTTTCCACAGCTGCAAGTTGAGTCCAGGATGCTAACATCTAAAAATAGACTTAAATCTC ATTGCTTACAAGCCTAAGAACTTTAGAGAAGTATACATAAGTTTAGGATAAAATAATGGGATTTTC TTTTCTTTCTCTGGTAATATTGACTTGTATATTTAAGAAATAACAGAA
WI-7814b	41 GA ---	---	TTCTCTCATTTTATCCCTCACCTGTAGCATGCCAGTCCC[G/A]TTTCATTTAGTCATGTGACCCTC TGCTTTGTGTTTCCACAGCTGCAAGTTGAGTCCAGGATGCTAACATCTAAAAATAGACTTAAATCTC ATTGCTTACAAGCCTAAGAACTTTAGAGAAGTATACATAAGTTTAGGATAAAATAATGGGATTTTC TTTTCTTTCTCTGGTAATATTGACTTGTATATTTAAGAAATAACAGAA
WI-7814	28 GA ---	---	TTCTCTCATTTTATCCCTCACCTGTAGCATGCCAGTCCC[G/A]TTTCATTTAGTCATGTGACCCTC TGCTTTGTGTTTCCACAGCTGCAAGTTGAGTCCAGGATGCTAACATCTAAAAATAGACTTAAATCTC ATTGCTTACAAGCCTAAGAACTTTAGAGAAGTATACATAAGTTTAGGATAAAATAATGGGATTTTC TTTTCTTTCTCTGGTAATATTGACTTGTATATTTAAGAAATAACAGAA

WI-7830d	150 C T ---	---	---	GCAGGAAATAGTCACTCATCCACTCCACATAAGGGGTTTAGTAAGAGAAGTCTGTCTGTCTGATGA TGGATAGGGGGCAAAATCTTTTCCCTTTCTGTTAATAGTCATCACATTTCTATGCCAAACAGGAACG ATCCATAACTTTAGT[C/T]TTAATGTACACATTGCATTTGATAAAATTAATTTGTTGTTTCCCTTTG AGTTGATCGTTGTTGTTTGGCTGCACITTTTACTTTTTGCGGTGTGGA
WI-7830c	54 G A ---	---	---	GCAGGAAATAGTCACTCATCCACTCCACATAAGGGGTTTAGTAAGAGAAGTCTGTCTGTCTGATGA TGATGGATAGGGGGCAAAATCTTTTCCCTTTCTGTTAATAGTCATCACATTTCTATGCCAAACAGGA ACGATCCATAACTTTAGTCTTAATGTACACATTGCATTTTGATAAAATTAATTTGTTGTTTCCCTTTG AGTTGATCGTTGTTGTTTGGCTGCACITTTTACTTTTTGCGGTGTGGA
WI-7830b	134 G A ---	---	---	GCAGGAAATAGTCACTCATCCACTCCACATAAGGGGTTTAGTAAGAGAAGTCTGTCTGTCTGATGA TGGATAGGGGGCAAAATCTTTTCCCTTTCTGTTAATAGTCATCACATTTCTATGCCAAACAGGAAC[ G/A]ATCCATAACTTTAGTCTTAATGTACACATTGCATTTTGATAAAATTAATTTGTTGTTTCCCTTTG AGTTGATCGTTGTTGTTTGGCTGCACITTTTACTTTTTGCGGTGTGGA
WI-7830	44 A G ---	---	---	GCAGGAAATAGTCACTCATCCACTCCACATAAGGGGTTTAGTAAGAGAAGTCTGTCTGTCTGATGA TGATGGATAGGGGGCAAAATCTTTTCCCTTTCTGTTAATAGTCATCACATTTCTATGCCAAACAGGA ACGATCCATAACTTTAGTCTTAATGTACACATTGCATTTTGATAAAATTAATTTGTTGTTTCCCTTTG AGTTGATCGTTGTTGTTTGGCTGCACITTTTACTTTTTGCGGTGTGGA
WI-7865e	25 C T ---	---	---	CCACTTCCTATCTGATTTTCCCAG[C/T]AATGAGGCGAGGCAATTCAGTCTCCACAAAACATCTA GCCATCTAAATGGAGAGATGAATCAITTCACCTATACAAACAGCTAGCTATTAGAGGGTGGTTGG GGTATGCTACTCATAAGATTTAGGGGTGCTTCCAACTGAAATCTCAATGTTCTCAGTACGAAAAAC CTGAAATCACATGCCTATGTAAGGAAAGTGCTATTACCCAGTAAACCCAAA
WI-7865d	191 C T ---	---	---	CCACTTCCTATCTGATTTTCCCAG[C/T]AATGAGGCGAGGCAATTCAGTCTCCACAAAACATCTA GCCATCTAAATGGAGAGATGAATCAITTCACCTATACAAACAGCTAGCTATTAGAGGGTGGTTGG GGTATGCTACTCATAAGATTTAGGGGTGCTTCCAACTGAAATCTCAATGTTCTCAGTACGAAAAAC CTGAAATCACATGCCTATGTAAGGAAAGTGCTATTACCCAGTAAACCCAAA
WI-7865c	25 C T ---	---	---	CCACTTCCTATCTGATTTTCCCAG[C/T]AATGAGGCGAGGCAATTCAGTCTCCACAAAACATCTA ATCTAAATGGAGAGATGAATCAITTCACCTATACAAACAGCTAGCTATTAGAGGGTGGTTGG GGTATGCTACTCATAAGATTTAGGGGTGCTTCCAACTGAAATCTCAATGTTCTCAGTACGAAAAAC CTGAAATCACATGCCTATGTAAGGAAAGTGCTATTACCCAGTAAACCCAAA
WI-7865b	191 C T ---	---	---	CCACTTCCTATCTGATTTTCCCAG[C/T]AATGAGGCGAGGCAATTCAGTCTCCACAAAACATCTA ATCTAAATGGAGAGATGAATCAITTCACCTATACAAACAGCTAGCTATTAGAGGGTGGTTGG ATGCTACTCATAAGATTTAGGGGTGCTTCCAACTGAAATCTCAATGTTCTCAGTACGAAAAAC CTGAAATCACATGCCTATGTAAGGAAAGTGCTATTACCCAGTAAACCCAAA



WI-7865	25 C T ---	---	CCACTTCCTATCTGATTTTCCAG[C/T]AAATGAGGCGGCAATTCTAGTCTCCACAAAACATCTA GCCATCTAAATGGAGAGATGAATCATTTCTACCTATACAAACAAGCTAGCTATTAGAGGGTGGTGG GGTATGCTACTCATAAGATTCAGGGTGCTTCCAACTGAAATCTCAATGTTCTCAGTACGAAAAAC CTGAAATCAGATGCCATGTATGTAAGGAAAGTGCTATTACCCAGTAACCCCAA
WI-7865	191 C T ---	---	CCACTTCCTATCTGATTTTCCAGGAAATGAGGAGGCAATCTAGTCTCCACAAAACATCTAGCC ATCTAAATGGAGAGATGAATCATTTCTACCTATACAAACAAGCTAGCTATTAGAGGGTGGTGGGT ATGCTACTCATAAGATTCAGGGTGCTTCCAACTGAAATCTCAATGTTCTCAGTA[C/T]GAAAAAC CTGAAATCAGATGCCATGTATGTAAGGAAAGTGCTATTACCCAGTAACCCCAA
WI-7867c	92 A C ---	---	TTCAAACACCTGTCTTCCACCTCCACCATCTGTGCAATCACTTACCCCTCAGCCTCACTAGTCCCC CTAACAAATACCTGTCAAGAGG[A/C]GAGTGCAGCTCAGGTGATTAAATGTGGTTTAAATATGGC CTGTTGAGTTTAAATGTTTAAATGTTGATTTCTTTAAGTAACCATTTCTGTTCTTGCTATAAATCTATGT CTATATGCTATGCTTAAATTTGGATGATGAAGGCAACTTGGATTTAAGG
WI-7867b	92 A C ---	---	TTCAAACACCTGTCTTCCACCTCCACCATCTGTGCAATCACTTACCCCTCAGCCTCACTAGTCCCC CTAACAAATACCTGTCAAGAGG[A/C]GAGTGCAGCTCAGGTGATTAAATGTGGTTTAAATATGGC CTGTTGAGTTTAAATGTTTAAATGTTGATTTCTTTAAGTAACCATTTCTGTTCTTGCTATAAATCTATGT CTATATGCTATGCTTAAATTTGGATGATGAAGGCAACTTGGATTTAAGG
WI-7868c	173 C T ---	---	TTGATCGATCTTTCCACCTGTCACTCAACGTGGTCCCTAGAACAAAGAGGCTTAAACCCGGCTTT CACCCAACTGCTCCCTGTGATCCTCCATCAGGGCCAGATCTCCACGTCTCCATCTCAGTACACAAT CAATTAATATTTCCCTGTCTTACCCCTATTCAAGCAA[C/T]TAGAGGCCAGAAAAATGGCAAAATTAT CACTAACAGGCTTTGACTCAGGTTCCAGTAGTTCATTTCTAATGCCTAGAT
WI-7868b	173 C T ---	---	TTGATCGATCTTTCCACCTGTCACTCAACGTGGTCCCTAGAACAAAGAGGCTTAAACCCGGCTTT CACCCAACTGCTCCCTGTGATCCTCCATCAGGGCCAGATCTCCACGTCTCCATCTCAGTACACAAT CAATTAATATTTCCCTGTCTTACCCCTATTCAAGCAA[C/T]TAGAGGCCAGAAAAATGGCAAAATTAT CACTAACAGGCTTTGACTCAGGTTCCAGTAGTTCATTTCTAATGCCTAGAT
WI-7868	66 T C ---	---	TTGATCGATCTTTCCACCTGTCACTCAACGTGGTCCCTAGAACAAAGAGGCTTAAACCCGGCTTT /C]TCAACCCAACTGCTCCCTGTGATCCTCCATCAGGGCCAGATCTCCACGTCTCCATCTCAGTACAC AATCAATTAATATTTCCCTGTCTTACCCCTATTCAAGCAAAC TAGAGGCCAGAAAAATGGCAAAATTAT CACTAACAGGCTTTGACTCAGGTTCCAGTAGTTCATTTCTAATGCCTAGAT
WI-7870b	85 T C ---	---	ATCTTTGCTCCCTGCAAGAAATCAGCCATAAGAAAGCACTATTAACTCTGCAGTGATTAGAAGGG GTGGGTGGGGGAATCC[C/T]ATTTATCAGACTCTGTAATGAATATAAATGTTTACTCAGAGGA GCTGCAAAATGCTGCAAAAATGAAATCCCAATGAGCACTAGAATATTTAAACATCATTTACTGCCAT CTTTATCATGAAGCACATCAATTACAAGCTGTAGACCACCTAATATCAATTTG

WI-7870	76 C T ---	---	ATCTTTGCTCCCTGCAAGAAATCAGCCATAAGAAAGCACTATTAACTCTGCAGTGATTAGAAGGG GTGGGTGG[C/T]GGGAATCCTATTATCAGACTCTGTAATTGAATATAAATGTTTACTCAGAGGAG CTGCAAAATTGCCTGCAAAATGAAATCCAATGAGCACTAGATAATTTAAACATCATTACTGCCATC TTTATCATGAAGCACATCAATTACAAGCTGTAGACCACCTAATATCAATTTG
WI-7889c	54 C ---	---	TTAGTCTCATGCCACTCCCCAGGAGCAGCTGGCACTGACAGCCTGGGGGGCGCTCTCCCCCTG CAGCCGTGCAGGACTCTAGCTCATGAGTGGAAGTCACTACAGGACTGGGCCGGCCAGGGCCTCT GGCTTCCCTGCCAAATCCTCCCTGGAGAAGGGACATGGGAATGAATTGAAATGGGGCGCTGGACACC TACAGCAGCAGCATGTCCTCCCAAGGCTGCTTCTCCAGAGCACAAGAAG
WI-7889b	54 C ---	---	TTAGTCTCATGCCACTCCCCAGGAGCAGCTGGCACTGACAGCCTGGGGGGCGCTCTCCCCCTG CAGCCGTGCAGGACTCTAGCTCATGAGTGGAAGTCACTACAGGACTGGGCCGGCCAGGGCCTCT GGCTTCCCTGCCAAATCCTCCCTGGAGAAGGGACATGGGAATGAATTGAAATGGGGCGCTGGACACC TACAGCAGCAGCATGTCCTCCCAAGGCTGCTTCTCCAGAGCACAAGAAG
WI-7894c	142 A G ---	---	AGCCACCCCCAAATATAACTGTTATCCAGAAGCTGTTATGTCCTGTTCCATACATGTTTTGTACT TTTACTATATCTACATACATCAATTAACCTTATGTCCTATTGTTTGTGAATTTATATTGCGTATAC ATTATC[A/G]TATGTAAAAATTGCAATTTTTTATTGAAAAATTATGTTCTTGAGATTTATCCACATTG AAACATGGAGCTCTAAATCGTTAATTTTAAACCGCTATAGAGTATCCATA
WI-7894b	142 A G ---	---	AGCCACCCCCAAATATAACTGTTATCCAGAAGCTGTTATGTCCTGTTCCATACATGTTTTGTACT TTTACTATATCTACATACATCAATTAACCTTATGTCCTATTGTTTGTGAATTTATATTGCGTATAC ATTATC[A/G]TATGTAAAAATTGCAATTTTTTATTGAAAAATTATGTTCTTGAGATTTATCCACATTG AAACATGGAGCTCTAAATCGTTAATTTTAAACCGCTATAGAGTATCCATA
WI-7900e	84 C T ---	---	GCTCACTGTGACCCATCCTTACTCTACTTGGCCAGGCCACAGTAAACAAGTGACCTTCAGAGCAGCT GCCACAACCTGGCCATG[C/T]CCTGCCATTGAACAGTGATTAACTTTGATCAAGCCATGGTGACACA AAAATGCATTGATCATGAATAGGAGCCCATGCTAGAAGTACATTCCTCAGATTTGAACCAAGTGA TATGATGTAATTTCTGAGCTAAAACCTCAACTATAGAAGACATTAAAGAAATC
WI-7900d	128 C T ---	---	GCTCACTGTGACCCATCCTTACTCTACTTGGCCAGGCCACAGTAAACAAGTGACCTTCAGAGCAGCT GCCACAACCTGGCCATG[C/T]CCTGCCATTGAACAGTGATTAACTTTGATCAAGCCATGGTG[A/C/T]ACA AAAATGCATTGATCATGAATAGGAGCCCATGCTAGAAGTACATTCCTCAGATTTGAACCAAGTGA TATGATGTAATTTCTGAGCTAAAACCTCAACTATAGAAGACATTAAAGAAATC
WI-7900e	84 C T ---	---	GCTCACTGTGACCCATCCTTACTCTACTTGGCCAGGCCACAGTAAACAAGTGACCTTCAGAGCAGCT GCCACAACCTGGCCATG[C/T]CCTGCCATTGAACAGTGATTAACTTTGATCAAGCCATGGTGACACA AAAATGCATTGATCATGAATAGGAGCCCATGCTAGAAGTACATTCCTCAGATTTGAACCAAGTGA TATGATGTAATTTCTGAGCTAAAACCTCAACTATAGAAGACATTAAAGAAATC

WI-7900d	128 C T	---	---	GCTCACTGTGACCCATCCTTACTCTACTTGGCCAGGCCACAGTAAACAAGTGACCTTCAGAGCAGCT GCCACAACCTGGCCATGCCCTGCCATTGAAACAGTGATTAAAGTTTGATCAAGCCATGGTGA[C/T]ACA AAATGCATTGATCATGAATAGGAGGCCCATGCTAGAAGTACATTCTCTCAGATTTGAACCCAGTGAAA TATGATGTAATTTCTGAGCTAAACTCAACTATAGAAGACATTAAAGAAATC
WI-7900e	84 C T	---	---	GCTCACTGTGACCCATCCTTACTCTACTTGGCCAGGCCACAGTAAACAAGTGACCTTCAGAGCAGCT GCCACAACCTGGCCATGCCCTGCCATTGAAACAGTGATTAAAGTTTGATCAAGCCATGGTGACACA AAATGCATTGATCATGAATAGGAGGCCCATGCTAGAAGTACATTCTCTCAGATTTGAACCCAGTGAAA TATGATGTAATTTCTGAGCTAAACTCAACTATAGAAGACATTAAAGAAATC
WI-7900d	128 C T	---	---	GCTCACTGTGACCCATCCTTACTCTACTTGGCCAGGCCACAGTAAACAAGTGACCTTCAGAGCAGCT GCCACAACCTGGCCATGCCCTGCCATTGAAACAGTGATTAAAGTTTGATCAAGCCATGGTGACACA AAATGCATTGATCATGAATAGGAGGCCCATGCTAGAAGTACATTCTCTCAGATTTGAACCCAGTGAAA TATGATGTAATTTCTGAGCTAAACTCAACTATAGAAGACATTAAAGAAATC
WI-7900c	84 C T	---	---	GCTCACTGTGACCCATCCTTACTCTACTTGGCCAGGCCACAGTAAACAAGTGACCTTCAGAGCAGCT GCCACAACCTGGCCATGCCCTGCCATTGAAACAGTGATTAAAGTTTGATCAAGCCATGGTGACACA AAATGCATTGATCATGAATAGGAGGCCCATGCTAGAAGTACATTCTCTCAGATTTGAACCCAGTGAAA TATGATGTAATTTCTGAGCTAAACTCAACTATAGAAGACATTAAAGAAATC
WI-7900b	128 C T	---	---	GCTCACTGTGACCCATCCTTACTCTACTTGGCCAGGCCACAGTAAACAAGTGACCTTCAGAGCAGCT GCCACAACCTGGCCATGCCCTGCCATTGAAACAGTGATTAAAGTTTGATCAAGCCATGGTGA[C/T]ACA AAATGCATTGATCATGAATAGGAGGCCCATGCTAGAAGTACATTCTCTCAGATTTGAACCCAGTGAAA TATGATGTAATTTCTGAGCTAAACTCAACTATAGAAGACATTAAAGAAATC
WI-7900	84 C T	---	---	GCTCACTGTGACCCATCCTTACTCTACTTGGCCAGGCCACAGTAAACAAGTGACCTTCAGAGCAGCT GCCACAACCTGGCCATGCCCTGCCATTGAAACAGTGATTAAAGTTTGATCAAGCCATGGTGACACA AAATGCATTGATCATGAATAGGAGGCCCATGCTAGAAGTACATTCTCTCAGATTTGAACCCAGTGAAA TATGATGTAATTTCTGAGCTAAACTCAACTATAGAAGACATTAAAGAAATC
WI-7901c	33 C T	---	---	AGACTTAGGTACAAATTGCTCCCTTTTATATA[C/T]AGACACACAGGACACATATATTAAACAG ATTGTTTCATCATTTGCATCTATTTCCATATAGTCATCAAGAGACCATTTTATAAAACATGGTAAGAC CCTTTTAAAAACAACTCCAGGCCCTTGGTTCGGGTGCTGGGTATTGGGCGAGCGCCGTGGTGGT CACTCAGTCGCTCTGCATGCTCTCTGTCATACAGACAGGTAACCTAGTTCT
WI-7901b	33 C T	---	---	AGACTTAGGTACAAATTGCTCCCTTTTATATA[C/T]AGACACACAGGACACATATATTAAACAG ATTGTTTCATCATTTGCATCTATTTCCATATAGTCATCAAGAGACCATTTTATAAAACATGGTAAGAC CCTTTTAAAAACAACTCCAGGCCCTTGGTTCGGGTGCTGGGTATTGGGCGAGCGCCGTGGTGGT CACTCAGTCGCTCTGCATGCTCTCTGTCATACAGACAGGTAACCTAGTTCT

WI-7901	33 C T ---	---	AGAC TTAGGTACAATTGCTCCCTTTTATATAC/TJAGACACACAGGACACATATATTAACAG ATTGTTTCATCATTCATCTATTTCCATATAGTCATCAAGAGACCATTTTATAAACATGGTAAGAC CCTTTTAAACAAAC TCCAGGCCCTTGTTGGGGTGGCTGGTTATTTGGGGCAGCGCCGTGGTCTGT CACTCAGTCGCTCGCATGCTCTCTGTCTATACAGACAGGTAACCTAGTTCT
WI-7901	271 T G ---	---	AGAC TTAGGTACAATTGCTCCCTTTTATATACAGACACACAGGACACATATATTAACAGATT GTTTCATCATTCATCTATTTCCATATAGTCATCAAGAGACCATTTTATAAACATGGTAAGACCCCT TTTTAAACAAAC TCCAGGCCCTTGTTGGGGTGGCTGGTTATTTGGGGCAGCGCCGTGGTCTGTAC TCAGTCGCTCGCATGCTCTCTGTCTATACAGACAGGTAACCTAGTTCTGTGT
WI-7926c	150 C A ---	---	CATTCCGCATCTGTCAACCCAGGACAGAAAGCATGGACAAGGGATGAGCTTTACAAAGATGATGCAC TTGGAGATCAGAAAAATTCATATTTAAGCAAAGTGATACAAACACAGTGATTTGGGAATGCCCTTCATT TACAATGCAATACCTTA[C/A]ATTTTAACTCTTTGTAGGAGAAAAAGCAACTGTATAAATGAATGTA GAGTGACTTTCTGCAATATTTGCAACCTATATCAGAGAAATACACTGTGGGAA
WI-7926b	28 A T ---	---	CATTCCGCATCTGTCAACCCAGGACAGAAATJTGCTGGACAAGGGATGAGCTTTACAAAGATGATGC ACTTTGGAGATCAGAAAAATTCATATTTAAGCAAAGTGATACAAACACAGTGATTTGGGAATGCCCTTC ATTTACAATGCAATACCTTA[C/A]ATTTTAACTCTTTGTAGGAGAAAAAGCAACTGTATAAATGAATGTA GAGTGACTTTCTGCAATATTTGCAACCTATATCAGAGAAATACACTGTGGGAA
WI-7926	150 C A ---	---	CATTCCGCATCTGTCAACCCAGGACAGAAAGCATGGACAAGGGATGAGCTTTACAAAGATGATGCAC TTGGAGATCAGAAAAATTCATATTTAAGCAAAGTGATACAAACACAGTGATTTGGGAATGCCCTTCATT TACAATGCAATACCTTA[C/A]ATTTTAACTCTTTGTAGGAGAAAAAGCAACTGTATAAATGAATGTA GAGTGACTTTCTGCAATATTTGCAACCTATATCAGAGAAATACACTGTGGGAA
WI-7947b	203 G T ---	---	AAGAGCCAGCAGGTCAAAAAGGCCAACACACACCAATAGCAGCCAGCCACAAAGGCCAGGTCCTGT GCTATCACAGGGTCACCTCTTTACAGTTAGAAACACCCAGCCGAGGCCACAGAAATCCCATCCCTTTCC TGAGTCATGGCCTCAAAAATCAGGGCCACCATTTGCTCAATTCAAATCCATAGATTTGGAAGCCACA GA[G/T]TCTCTCCCTGGAGCAGCAGACTATGGCAGCCAGTGTGCCACCTG
WI-7947	203 G T ---	---	AAGAGCCAGCAGGTCAAAAAGGCCAACACACACCAATAGCAGCCAGCCACAAAGGCCAGGTCCTGT GCTATCACAGGGTCACCTCTTTACAGTTAGAAACACCCAGCCGAGGCCACAGAAATCCCATCCCTTTCC TGAGTCATGGCCTCAAAAATCAGGGCCACCATTTGCTCAATTCAAATCCATAGATTTGGAAGCCACA GA[G/T]TCTCTCCCTGGAGCAGCAGACTATGGCAGCCAGTGTGCCACCTG
WI-7963b	145 T C ---	---	CATGTGCTGCATGAAGAGCTAATTTAAAAAGCAAAGTAAGACTAATTTTAAAAATAAAATGCC ACAAATTTTCATTTTCTCTCTCTAGATTTACAAATGAGAGTTTATCTCTGCCCTAAAAAGTGAAGAAAT TGAGTGAATGAT[C/JAATTTTGTAATTTAGGATAAGATCCCAAGTTATTTCCCAACTCTTTGTTCC CCATAAAGTTAGGCATGAGGAGGAGCACTCATTAAAGGCAGAGACGGAAAA

[illegible]

WI-8021b	57 C T ---	---	---	ACAACTCAGAAGGACTGTGCAAGTCAATGAGTCGCTTGTAATTCATCTGGAAAC[CT]GATCCC ACGTCCTTAGAACCTTCAACCAAGGAGTTTCTTGTAGTGATCTCAAAGTCTGGTAGGCATTCGA ACTGGTCCCTTACACTTTGAGATCTTTCTTTGCGCCTCTTATCAAGTCAGCACACACCTTTTCCAAG GATTTACGTTGCGGCTTGTAGGGTGATTCGAATTCGGTGAATTGCCA
WI-8021	57 C T ---	---	---	ACAATCTCAGAAGGACTGTGCAAGTCAATGAGTCGCTTGTAATTCATCTGGAAAC[CT]GATCCC ACGTCCTTAGAACCTTCAACCAAGGAGTTTCTTGTAGTGATCTCAAAGTCTGGTAGGCATTCGA ACTGGTCCCTTACACTTTGAGATCTTTCTTTGCGCCTCTTATCAAGTCAGCACACACCTTTTCCAAG GATTTACGTTGCGGCTTGTAGGGTGATTCGAATTCGGTGAATTGCCA
WI-8024c	206 A G ---	---	---	CTGAAAATTTACTATGCTCTCCACAACAAGAGCTCCCATTTTCCACAGACACAGTCAATGTCAGTCA GCTTGATTTAGGAGGACAGGGCAGAGGGATCCCAAGTGGCACTTCCCATGGGAAGACAGAAGAGAGT GGCCCCAGAGATGGAAGGACCCAGTGTCATCACCAACAACCATTTAGCCGCTTAGCCTCTAA TTCCC[A/G]CTCTAGAACAGCTGGCCCTGGTCGTCAGTACACAAGGAAAGAGC
WI-8024b	206 A G ---	---	---	CTGAAAATTTACTATGCTCTCCACAACAAGAGCTCCCATTTTCCACAGACACAGTCAATGTCAGTCA GCTTGATTTAGGAGGACAGGGCAGAGGGATCCCAAGTGGCACTTCCCATGGGAAGACAGAAGAGAGT GGCCCCAGAGATGGAAGGACCCAGTGTCATCACCAACAACCATTTAGCCGCTTAGCCTCTAA TTCCC[A/G]CTCTAGAACAGCTGGCCCTGGTCGTCAGTACACAAGGAAAGAGC
WI-8077	167 A G ---	---	---	GAATGAGCCTTCCTAGCGCGAGGGACCTGCTGCTGTTGTTGGCCTGCACATGCTTCTATGGAATGC TTTTGGCCAAAGCGGGGCACTGAGGACTAAGCTCTGANNNNNNNATCTGCCCCAACTCCTTTCT AAGGAGTCTGGGGTGTCATGCCCTACAAACC[A/G]TAAATCTCATCAGATGGATTTTATTAAACGTT GTGATTGTGACTTACTTTCCAATCTGACTCTGGCATAACAAGGAAAAA
WI-8118f	114 G C ---	---	---	TCTAGGTTTAATCAAAGCAATTTGCANTTTGGATTTTGGAAATGACCACCTCCCTTGCTAAGGAAGCTAT GTACTTCATGCTGTGGAAACTGGCAAAATACAGAATGAGCTTGTGTTTTCCTTAGCCTTGAAGA TGACCAGGTAGAGACAGAGTGAGACCAACAGTTTCTGATTTCCCTGCTCCTCTATTCCTTCTCT AAAAATCAGACTCATTGTGACCAGTAGCTTGAGGACTCAAGCTGAATGA
WI-8118e	40 A G ---	---	---	TCTAGGTTTAATCAAAGCAATTTGCANTTTGGATTTTGGAAATGACCACCTCCCTTGCTAAGGAAGC TATGTACTTCATGCTGTGGAAACTGGCAAAATACAGAATGAGCTTGTGTTTTCCTTAGCCTTGAAGA TGACCAGGTAGAGACAGAGTGAGACCAACAGTTTCTGATTTCCCTGCTCCTCTATTCCTTCTCT AAAAATCAGACTCATTGTGACCAGTAGCTTGAGGACTCAAGCTGAATGA
WI-8118d	118 T G ---	---	---	TCTAGGTTTAATCAAAGCAATTTGCANTTTGGATTTTGGAAATGACCACCTCCCTTGCTAAGGAAGCTAT GTACTTCATGCTGTGGAAACTGGCAAAATACAGAATGAGCTTGTGTTTTCCTTAGCCTTGAAGA TGACCAGGTAGAGACAGAGTGAGACCAACAGTTTCTGATTTCCCTGCTCCTCTATTCCTTCTCT AAAAATCAGACTCATTGTGACCAGTAGCTTGAGGACTCAAGCTGAATGA

WI-8118c	44 C T ---	---	TCTAGGTTAATCAAAGCAATTTGCANITTTGGATTTTGAATGAIC/IJCACCTCCCTTGCTAAGGAAGC TATGTACTTCATGCTGTGGAACTGGCAATACAGAATGTAGCTTGTTGTTTCTTAGCCCTTGAAGA TGACCAGGTAGAGACAGAGTGAGACCAACAGTTTTTCTGATTTCCCTGCTCCTTATCCTTCCCT AAAAATCAGACTCATTGTGACCAGTAGTCTTGAGGACTCAAGCTGAATGA
WI-8118b	88 T C ---	---	TCTAGGTTAATCAAAGCAATTTGCANITTTGGATTTTGAATGACCACTCCCTTGCTAAGGAAGCTAT GTACTTCATGCTGTGGAAAC/IJCJGGCAATACAGAATGTAGCTTGTTGTTTCTTAGCCCTTGAAGA TGACCAGGTAGAGACAGAGTGAGACCAACAGTTTTTCTGATTTCCCTGCTCCTTATCCTTCCCT AAAAATCAGACTCATTGTGACCAGTAGTCTTGAGGACTCAAGCTGAATGA
WI-8171d	299 C T ---	---	TTTTCTCTCTCCGGGGGACCAAGGTACCTTCTGGGGCATACAACATGGCAGCGGCCCTCGGGAAG AGGGGTAGGAGGACCGAGCAGCATTTCTGTAGAGGAAGACAGGAAAGGAGACCCCTCTTGGCACACA TTTATGGAGGTTGTCCCTGAAGAGAGGGCAGGTGGGAGAGGTTCCCTGTTACTTTAAGAGAAGGC ACCAGTGGGCAAGAGCACAAATGAAGAGGATGATGATAAAAACAATCACGGCA
WI-8171c	46 A G ---	---	TTTTCTCTCTCCGGGGGACCAAGGTACCTTCTGGGGCATACAAC/IJGTGGCAGAGGCCCTCGGG AAGAGGGGTAGGAGGACCGAGCAGCATTTCTGTAGAGGAAGACAGGAAAGGAGACCCCTCTTGGCAC ACATTTATGGAGGTTGTCCCTGAAGAGAGGGCAGGTGGGAGAGGTTCCCTGTTACTTTAAGAGAA GGCACCAAGTGGGCAAGAGCACAAATGAAGAGGATGATGATAAAAACAATCAC
WI-8171a	46 A G ---	---	TTTTCTCTCTCCGGGGGACCAAGGTACCTTCTGGGGCATACAAC/IJGTGGCAGAGGCCCTCGGG AAGAGGGGTAGGAGGACCGAGCAGCATTTCTGTAGAGGAAGACAGGAAAGGAGACCCCTCTTGGCAC ACATTTATGGAGGTTGTCCCTGAAGAGAGGGCAGGTGGGAGAGGTTCCCTGTTACTTTAAGAGAA GGCACCAAGTGGGCAAGAGCACAAATGAAGAGGATGATGATAAAAACAATCAC
WI-8171b	298 T C ---	---	TTTTCTCTCTCCGGGGGACCAAGGTACCTTCTGGGGCATACAACATGGCAGCGGCCCTCGGGAAG AGGGGTAGGAGGACCGAGCAGCATTTCTGTAGAGGAAGACAGGAAAGGAGACCCCTCTTGGCACACA TTTATGGAGGTTGTCCCTGAAGAGAGGGCAGGTGGGAGAGGTTCCCTGTTACTTTAAGAGAAGGC ACCAGTGGGCAAGAGCACAAATGAAGAGGATGATGATAAAAACAATCACGGCA
WI-8314b	85 G C ---	---	GAGGGAAATGACATCTGGAGATCTAGGTATGTGGCCCATTTGCAATTGAGCACATTTCTTGGGTCTGT TTCTCTATCTCTAAGGG/IJCJAGTCTCAAAACCCAGCTCAAAATACGACACTAACATGATGAACAT GCATGAGCTTTGAAAAGTCTCTGTAGTCTTATGATGATCTAGAAGAGCACTGTCCAATAGAACTTTC TGTGATGATGAAAAGATTCTACTTCTGACCTATTCAATAGGGGTAACCACT
WI-8314	78 C G ---	---	GAGGGAAATGACATCTGGAGATCTAGGTATGTGGCCCATTTGCAATTGAGCACATTTCTTGGGTCTGT TTCTCTATCTC/IJGJTAAGGGGAGTCTCAAAACCCAGCTCAAAATACGACACTAACATGATGAACAT GCATGAGCTTTGAAAAGTCTCTGTAGTCTTATGATGATCTAGAAGAGCACTGTCCAATAGAACTTTC TGTGATGATGAAAAGATTCTACTTCTGACCTATTCAATAGGGGTAACCACT

WI-8321	178 G A ---	---	TTTTAAATATGCCCGTTTAGAGCAGACACAGTCACAATAAAAGTTAAAAAGTTACAATGTGTCCAG TGATATACCCAGGNAATCCATTCTTGGTACTTTTCAAGAGCTGCTGTATATACTGAGTCTCTGAGAAG TCCCCTTAGATAATAGTGCACATTTTCAGTATGGTTCAGAAATG/AJAGTATCTTAGTATTTCTTCTA TTTGCTATGGTCTAGTTATCAACCTACTTTATTAGCTGAACGTGTGGC
WI-8321	178 G A ---	---	TTTTAAATATGCCCGTTTAGAGCAGACACAGTCACAATAAAAGTTAAAAAGTTACAATGTGTCCAG TGATATACCCAGGNAATCCATTCTTGGTACTTTTCAAGAGCTGCTGTATATACTGAGTCTCTGAGAAG TCCCCTTAGATAATAGTGCACATTTTCAGTATGGTTCAGAAATG/AJAGTATCTTAGTATTTCTTCTA TTTGCTATGGTCTAGTTATCAACCTACTTTATTAGCTGAACGTGTGGC
WI-8332b	123 A C ---	---	TATGTACTACATTTTCAGTTACCCCGTGCCTCCAGAATCGCATGTTGCTCCACCTGGGGCGGATATA AATTACCTCTAGATTGTCCAAAGCCAGTCTTTCCCTTCCCTGTGCAGCCTTAGA/CJACTAAGTAG CAGTACTGTTGGTGTGTTTCTTCCCAGCAATGCCTACTGCAGCTACTTAGTAACAACCTAG AGGTGGAGGGTNTCCGGGAAGCAGTTAGATGAGTTAAGTGTGATGCACA
WI-8332	114 A C ---	---	TATGTACTACATTTTCAGTTACCCCGTGCCTCCAGAATCGCATGTTGCTCCACCTGGGGCGGATATA AATTACCTCTAGATTGTCCAAAGCCAGTCTTTCCCTTCCCTGTGC/CJGCCCTTAGAAACCTAAGTAG CAGTACTGTTGGTGTGTTTCTTCCCAGCAATGCCTACTGCAGCTACTTAGTAACAACCTAG AGGTGGAGGGTNTCCGGGAAGCAGTTAGATGAGTTAAGTGTGATGCACA
WI-8378b	311 T C ---	---	TGCGGGCTTAACAGGAAGCATGACTGGGAGGCTCAGGAAGCTTATAATCATGGCAGAAGCGGAAGG GGAAGCAAGGACCTTCTTACATGGCAGCAGGAGAAAGAGAAAGAGGAGAGTCTACACACTTTT AAACAACCCAGATCTCATGAGANTCCATCGGGAGACAGCACTAGGGGATGGCACTAAACCATTAGA AACTGCCCCCATGATCCAATCACCTNTCACAGGCCCCCTCTCCAACACGTGGGG
WI-8378	308 T C ---	---	TGCGGGCTTAACAGGAAGCATGACTGGGAGGCTCAGGAAGCTTATAATCATGGCAGAAGCGGAAGG GGAAGCAAGGACCTTCTTACATGGCAGCAGGAGAAAGAGAAAGAGGAGAGTCTACACACTTTT AAACAACCCAGATCTCATGAGANTCCATCGGGAGACAGCACTAGGGGATGGCACTAAACCATTAGA AACTGCCCCCATGATCCAATCACCTNTCACAGGCCCCCTCTCCAACACGTGGGG
WI-8426	184 T G ---	---	TTAGCACATATTAGCATTAAGCCTCAAACGATACAGCAATATGTTACATCTCTTGTGAAAAACAG TTGTTGTAGACTGTTAANNNNNNNNAATGTAACCTCCGACTTGTGCCTAATAGGATTTGACCNNTAA GAGGNTCTTTTGTGTGGANGGGTGGCTTGTGTAACCTCCATCTGTG/GGCCCTTAGCTGGTG AGGCTGGGAGTATGGANGNCCCGGGGCCCCCTTGGGNATGNATTCAGTGAG
WI-8450h	61 C A ---	---	TTGAGCCTCCACAAATAATGCAACCAAGTTTACATTTTAAACAGCCCCCTCTACATACACT[C/A]CA TCTTCTATCTTAGTCCAGTTTAGTTTCAATCCCAATATACCAATTCATTGTTATTTAAGA AAAAACCTTCCCAGTTATTGTCAGAAACTATGATTAGCTTACCCCTCCACTACCCAGCAAACTAC AGAGAGGATGGGAGTGTAAATATGAGCAGTACAGAGTCTTAATGCAATTCAT



WI-8450g	55 T C ---	---	TTGAGCCTCCACAAATAATGCAACCAAGTTTACATTTTAAACAGCCCTCTACATTCACACTCCATCTTCTATCTTAGTCCCAAGTTTGTATTTCAATCCCAATTATACCAATCCATTGTTATTTTAAAGAAAAACCTTCCCAAGTTATTGTCAGAAACTATGATTTAGCTTACCCCTCCACTACCCAGCAAACTACAGAGAGGATGGGAGTGTAATATGAGCAGTACAGAGTCTTAATGCAATTTCAT
WI-8450f	108 T A ---	---	TTGAGCCTCCACAAATAATGCAACCAAGTTTACATTTTAAACAGCCCTTCTACATACACTCCATCTTCTATCTTAGTCCCAAGTTTGTATTTCAATCCCAATTATACCAATCCATTGTTATTCATTTTAAAGAAAAACCTTCCCAAGTTATTGTCAGAAACTATGATTTAGCTTACCCCTCCACTACCCAGCAAACTACAGAGAGGATGGGAGTGTAATATGAGCAGTACAGAGTCTTAATGCAATTTCAT
WI-8450e	125 T C ---	---	TTGAGCCTCCACAAATAATGCAACCAAGTTTACATTTTAAACAGCCCTTCTACATACACTCCATCTTCTATCTTAGTCCCAAGTTTGTATTTCAATCCCAATTATACCAATCCATTGTTATTCATTTTAAAGAAAAACCTTCCCAAGTTATTGTCAGAAACTATGATTTAGCTTACCCCTCCACTACCCAGCAAACTACAGAGAGGATGGGAGTGTAATATGAGCAGTACAGAGTCTTAATGCAATTTCAT
WI-8450d	125 T C ---	---	TTGAGCCTCCACAAATAATGCAACCAAGTTTACATTTTAAACAGCCCTTCTACATACACTCCATCTTCTATCTTAGTCCCAAGTTTGTATTTCAATCCCAATTATACCAATCCATTGTTATTCATTTTAAAGAAAAACCTTCCCAAGTTATTGTCAGAAACTATGATTTAGCTTACCCCTCCACTACCCAGCAAACTACAGAGAGGATGGGAGTGTAATATGAGCAGTACAGAGTCTTAATGCAATTTCAT
WI-8450c	108 T A ---	---	TTGAGCCTCCACAAATAATGCAACCAAGTTTACATTTTAAACAGCCCTTCTACATACACTCCATCTTCTATCTTAGTCCCAAGTTTGTATTTCAATCCCAATTATACCAATCCATTGTTATTTTAAAGAAAAACCTTCCCAAGTTATTGTCAGAAACTATGATTTAGCTTACCCCTCCACTACCCAGCAAACTACAGAGAGGATGGGAGTGTAATATGAGCAGTACAGAGTCTTAATGCAATTTCAT
WI-8450b	61 C A ---	---	TTGAGCCTCCACAAATAATGCAACCAAGTTTACATTTTAAACAGCCCTTCTACATACACTTCACATCTTCTCTATCTTAGTCCCAAGTTTGTATTTCAATCCCAATTATACCAATCCATTGTTATTTTAAAGAAAAACCTTCCCAAGTTATTGTCAGAAACTATGATTTAGCTTACCCCTCCACTACCCAGCAAACTACAGAGAGGATGGGAGTGTAATATGAGCAGTACAGAGTCTTAATGCAATTTCAT
WI-8450a	55 T C ---	---	TTGAGCCTCCACAAATAATGCAACCAAGTTTACATTTTAAACAGCCCTTCTACATTCACACTCCATCTTCTATCTTAGTCCCAAGTTTGTATTTCAATCCCAATTATACCAATCCATTGTTATTTTAAAGAAAAACCTTCCCAAGTTATTGTCAGAAACTATGATTTAGCTTACCCCTCCACTACCCAGCAAACTACAGAGAGGATGGGAGTGTAATATGAGCAGTACAGAGTCTTAATGCAATTTCAT
WI-8458b	60 A G ---	---	CAAGGAAAGCTGCAGTCTTCATAAACTTTCAAGAGGTTACAAAAATACGTATTTTTTAAAGCTACAATTCAAGATTAGCATCCAAACCTACAAACATGATGATACATTCGTCACACCCATACACCTTCACACCTGGCTACAGCAATGTTGACTTACATCACCATTCATGTTTACTTGTGAAAACTTTATTGTGCACAGTGACATCCATTCGGCCAGACTTAATGTTATATAAAGCAGCTGAGCAGAGTTCCTCA

WI-8461c	105 A T ---	---	---	CTTCTCCTCCAAAACTACATGAATACCTTGAAGACAATATAACTACAACCTTACAAATGCCAATTAGACAAAGAGANTAAATGATATAATATAATCAATTTTAA/TTNNNNNNNNCCCTTGTCTTATTCACATTCAGGGAAGTCTAGCACCAAGGACAGTNTTAAACAATACAAANTTTNTTAGAAAAAGTTATTACTTAAACATCTGTGTGACCTACATCAAAAGAAAAANTCAAGGATTGCAAAAAGGGGG
WI-8461b	38 T C ---	---	---	CTTCTCCTCCAAAACTACATGAATACCTTGAAGACAAT/TCJATAACTACAACCTTACAAATGCCAAATTAGACAAAGAGANTAAATGATATAATATAATCAATTTTNNNNNNNNCCCTTGTCTTATTCACATTCAGGGAAGTCTAGCACCAAGGACAGTNTTAAACAATACAAANTTTNTTAGAAAAAGTTATTACTTAAACATCTGTGTGACCTACATCAAAAGAAAAANTCAAGGATTGCAAAAAGGGGG
WI-8461	38 T C ---	---	---	CTTCTCCTCCAAAACTACATGAATACCTTGAAGACAATATAACTACAACCTTACAAATGCCAATTAGACAAAGAGANTAAATGATATAATATAATCAATTTTAA/TTNNNNNNNNCCCTTGTCTTATTCACATTCAGGGAAGTCTAGCACCAAGGACAGTNTTAAACAATACAAANTTTNTTAGAAAAAGTTATTACTTAAACATCTGTGTGACCTACATCAAAAGAAAAANTCAAGGATTGCAAAAAGGGGG
WI-8461	105 A T ---	---	---	CTTCTCCTCCAAAACTACATGAATACCTTGAAGACAATATAACTACAACCTTACAAATGCCAATTAGACAAAGAGANTAAATGATATAATATAATCAATTTTAA/TTNNNNNNNNCCCTTGTCTTATTCACATTCAGGGAAGTCTAGCACCAAGGACAGTNTTAAACAATACAAANTTTNTTAGAAAAAGTTATTACTTAAACATCTGTGTGACCTACATCAAAAGAAAAANTCAAGGATTGCAAAAAGGGGG
WI-9438	77 A G ---	---	---	AATAACATGTTATGAACAAGCTGTTACAAGTAGTAGGTAGATGACTTAATTTTGATAAAAAAATAAAAAGCAT/AGAACATGCATATAAAAAATTAGATTATGTACAAAAATACCAACAGTATTTACTTC TGCTCAGTAATTAATAATTCTCCCTTTGTTTGTCTTTTAAAAAACATTATTTCTGAAAAAATAATCAGAAAAACATGATCGTGGAGAAATTATTA
WI-9439b	101 C T ---	---	---	ACAGAAATTGACCTTTATTTGTTGTAAGCCCTGTTTAACTTTTGATACAAAGTAACATTTTAGTACAGAAAAATCCAGTCTGTGAGCTCAGTACCTGT/CTJTGACACTGTACCATCTCAGTCCCCTCTGCCTGTAACCTAGAAAAACAGCCCTACCCCGAGGGTCTGCGAGTTAATACCTTGAGAATAGTCTACAGTTTTTCATAGTTTGTCTGAGCTAGAAAAACTTGACCTGTAAAAACAAG
WI-9439a	76 C T ---	---	---	ACAGAAATTGACCTTTATTTGTTGTAAGCCCTGTTTAACTTTTGATACAAAGTAACATTTTAGTACAGAAAAAT/CTCCAGTCTGTGAGCTCAGTACCTGTCTGTGACACTGTACCATCTCAGTCCCCTCTGCCTGTAACCTAGAAAAACAGCCCTACCCCGAGGGTCTGCGAGTTAATACCTTGAGAATAGTCTACAGTTTTTCATAGTTTGTCTGAGCTAGAAAAACTTGACCTGTAAAAACAAG
WI-9446b	75 T C ---	---	---	GAAGGCTTGATTAAAGGGAGGNTTTATTTGATGTNAACCTTACCATTCCATAGACTATAAAGANCATTATAAAAAAA/CTCCTCTAAAGNGACACATGCCCAATGACCCCAATGACCCCAATGACCAACCTTTTAAAT TACTCATCTTTCATATGTGTGTTGTGNNCCCTACTNTTATCAGTGTGCTCTGTCTTTTGTGCTACCTATGNGAACTGCACACTATCTGTGGCAATATTGT

WI-9446	75 T C ---	---	GAAGGC TTGATTAAGGAGGNTTATTTGATGNAACCTACCATCCATAGACTATAAGANCATTA TAAAAAAJTCJCCCTAAAGNGACACATGCCCAAATGACCANGNCATAAGCAAACCTTTTAAAT TACTCATCTTTCATATGTGTGTTGNCCTTACCTTATCATCTGCTCTCTGCTTTTGTCTACCTA TGNGAACTGCACACTATCTGTGGCAATATTGT
WI-9497b	185 A ---	---	ATTAATGTCAAGGTTTCATGTTTACATTTCTTATATCAAGTACAATGGTATATATACTTTTTT GAGATAATTATCTAGATCCAGGCTTCTCTAGATGTAAGTNCCTAAAGCTTATAGTTTACATTGA TATCTAGACATATATCTTAAACAGTCTCCAAATTNCTTTAATTAATCAAAAGTATGTTAATGTCACIT GGAATCTACATGGAAAAGCCCAACAAATAACTAAAACTTGACTAATGAAG
WI-9497	185 A ---	---	ATTAATGTCAAGGTTTCATGTTTACATTTCTTATATCAAGTACAATGGTATATATACTTTTTT GAGATAATTATCTAGATCCAGGCTTCTCTAGATGTAAGTNCCTAAAGCTTATAGTTTACATTGA TATCTAGACATATATCTTAAACAGTCTCCAAATTNCTTTAATTAATCAAAAGTATGTTAATGTCACIT GGAATCTACATGGAAAAGCCCAACAAATAACTAAAACTTGACTAATGAAG
WI-9523b	193 C A ---	---	GTGAAAAGTTTTCTATTCTCATCATACAATAGATTGTGCTAAGGATCATTTTGGAAAGATGTG CAGCATTCAGAAGTTGTATCTCATCATGCAGTCACTCAGCAGCATTTTATCTAAAAGTACGTGCACA GACTCAGACAAATTACAAACTATTCAGCCATGATCTATGGTGATTTCCACACATTTGTAJC/AJAGTG AAAGCTCTTCAGCTTGGAAACAACCTTGCAAGGCAGACTGCATGCACATATAT
WI-9523a	47 G A ---	---	GTGAAAAGTTTTCTATTCTCATCATACAATAGATTGTGCTAAG[G/A]ATCATTTTGGAAAGAAT GTGCAGCATTCAGAAGTTGTATCTCATCATGCAGTCACTCAGCAGCATTTTATCTAAAAGTACGTGGA CAGACTCAGACAAATTACAAACTATTCAGCCATGATCTATGGTGATTTCCACACATTTGTACAGTGA AAGCTCTTCAGCTTGGAAACAACCTTGCAAGGCAGACTGCATGCACATATAT
WI-9554	202 T C ---	---	AAAAACACAAGTTTCATACATCACAAAAAACCTTCCATTATAACACAGAAGTGATTATTACCAGAC AAGCATCAGTGATGATATCTGCTTNCCTAGTTGTTATGTAATGCTAGATAATGCAGCCCATG CAATACACCCAAAGAACACTAGAGTCTACACCCAAAGTACAATATGATAAAGCAGCCCTCTGCAAGTG GTT/CJGCTGGATACCACTAAGAAAGTCTACTGCAGCCATGTTGGTTATGATTTT
WI-9555	97 G A ---	---	CCAAAAGCCAAACCATTCATATGTATGGATTTTCATAAACATTTATTGATCCCTTTTGGAGTAAGTAT AAATACCTTTACATGGCTAACCTTCTAAC[G/A]CTTGAAAAATCAATTTCAAGGGACTCTTTTAAATCA GTTAAATAATCTGCTTTAGAAGGCACAAATGATCATACTTCAGATTAAAAATACAGGTAAGTATTCAG GGNTAAATGGTACAAAAAAGGCTGTAACCTTTTNCCTTCACATTGATCACA
WI-9625b	172 A T ---	---	TTGAACATTTAATGAATGACAAAGACATAACATCCCTCGAAAAATCTGCAAGTAAATCAATCATTTT TAAACAAATAGCTACCATATATTTGTATCTNCTCTTGGGAAAAACCTTTGGAAAAAACAACGCACA TAAGTATCATAAAGTGGGTTGTGGACAAGTACTCT[AT]GTTTACCAATTTTATATTGACATAA AGTAGCACAGACTAGTTATTTCATTTAAAAAACAACACTGACAAATCTTTTC

WI-9625	172 A T ---	---	---	TTGAACATTTAATGAATGACAAAGACATAACATCCTCTGAAAAATCTGCAAGTAAATCAATCATTTT TAAACAATAGCTACCATATATTTGTATCTNCTCTTGGGAAAAAATTTGGAAAAAACAACACGCACA TAAGTATCATAACTGAGGGTTGTGGACAAGTTACTTCT[AT]GTGTTTACCAATTTTATATTGACATAA AGTAGCACAGACTAGTTATTTCAATTTAAAAAACACACTGACAAATCTTTTC
WI-9647	144 C T ---	---	---	TTTTCTGAGATTCAAAGAGCTACATTTTGGTTAGTGTATGTCTACTATACCTTTTTCATCCTTTCA ACATCTTTTGTACATTTTAGTGATGCTCTTGTAAACAGTGTATGCTAGACCTAAAAATCCAAAGCT TACAACCT[CT]GTCCCTTACCTGATACATTTATCCATTTACTTTTCACTTTGGATTTTAAAAATGTTA ACTTAATACGTCCTTTTCAGATGTCCTGCTTTTGTAGTTAATTGTTT
WI-9676n	114 A G ---	---	---	GGCCACTGTCCAAAGTCTGTACAGTCTCCTCCATATGGCAAAGATGAAGAAAAATGGCAATCTTTTAA GGGTACCAAGGNTCTGAGTTTGTACGGTCTTTATAATGCAGAGCA[AG]GATGTGGCTTTCCTGGCC CCCATTTCACTCAAGGCATCTTCAGCAACCCACATGGCTTCCCTCTGTGGCATGAAATAACTTGA GGCCAGGGTCTCTCAGCTTTAAAGCCTTGGAAATCCTATGCATTGTTTGT
WI-9676m	184 G T ---	---	---	GGCCACTGTCCAAAGTCTGTACAGTCTCCTCCATATGGCAAAGATGAAGAAAAATGGCAATCTTTTAA GGGTACCAAGGNTCTGAGTTTGTACGGTCTTTATAATGCAGAGCAAGATGTGGCTTTCCTGGCCCC ATTTACCTCAAGGCATCTTCAGCAACCCACATGGCTTCCCTCTGTGCG[CT]CATGAAATAACTTGA GGCCAGGGTCTCTCAGCTTTAAAGCCTTGGAAATCCTATGCATTGTTTGT
WI-9676l	84 A C ---	---	---	GGCCACTGTCCAAAGTCTGTACAGTCTCCTCCATATGGCAAAGATGAAGAAAAATGGCAATCTTTTAA GGGTACCAAGGNTCTGAGTTTGTACGGTCTTTATAATGCAGAGCAAGATGTGGCTTTCCTGGCCCC ATTTACCTCAAGGCATCTTCAGCAACCCACATGGCTTCCCTCTGTGCGCATGAAATAACTTGAGG[ C/TT]CAGGGTCTCTCAGCTTTAAAGCCTTGGAAATCCTATGCATTGTTTGT
WI-9676k	202 C T ---	---	---	GGCCACTGTCCAAAGTCTGTACAGTCTCCTCCATATGGCAAAGATGAAGAAAAATGGCAATCTTTTAA GGGTACCAAGGNTCTGAGTTTGTACGGTCTTTATAATGCAGAGCAAGATGTGGCTTTCCTGGCCCC ATTTACCTCAAGGCATCTTCAGCAACCCACATGGCTTCCCTCTGTGCGCATGAAATAACTTGAGG[ C/TT]CAGGGTCTCTCAGCTTTAAAGCCTTGGAAATCCTATGCATTGTTTGT
WI-9676j	92 C T ---	---	---	GGCCACTGTCCAAAGTCTGTACAGTCTCCTCCATATGGCAAAGATGAAGAAAAATGGCAATCTTTTAA GGGTACCAAGGNTCTGAGTTTGTACGGTCTTTATAATGCAGAGCAAGATGTGGCTTTCCTGGCC CCCATTTCACTCAAGGCATCTTCAGCAACCCACATGGCTTCCCTCTGTGCGCATGAAATAACTTGA GGCCAGGGTCTCTCAGCTTTAAAGCCTTGGAAATCCTATGCATTGTTTGT
WI-9676i	173 T C ---	---	---	GGCCACTGTCCAAAGTCTGTACAGTCTCCTCCATATGGCAAAGATGAAGAAAAATGGCAATCTTTTAA GGGTACCAAGGNTCTGAGTTTGTACGGTCTTTATAATGCAGAGCAAGATGTGGCTTTCCTGGCCCC ATTTACCTCAAGGCATCTTCAGCAACCCACATGGCTTTCCTCTGTGCGCATGAAATAACTTGA GGCCAGGGTCTCTCAGCTTTAAAGCCTTGGAAATCCTATGCATTGTTTGT

WI-9676h	134	C A ---	---	GGCCACTGTCCAAAGTCTGTACAGTCTCCATATGGCAAGATGAAGAAAATTGGCAATCTTTTAA GGGTACCAAGGNTCTGAGTTTGACGGTCTTTATAATGCAGAGCAAGATGTGGCTTTCCTGGCCCG C/AJTTCACCTCAAGGCATCTTCAGCAACCCACATGGCTTCCCTCTGTGCGCATGAAATAACTTG AGCCAGGGTCTCTCAGCTTTAAAGCCTTGGAACTCCTATGCATTGTTGTTT
WI-9676g	202	C T ---	---	GGCCACTGTCCAAAGTCTGTACAGTCTCCATATGGCAAGATGAAGAAAATTGGCAATCTTTTAA GGGTACCAAGGNTCTGAGTTTGACGGTCTTTATAATGCAGAGCAAGATGTGGCTTTCCTGGCCCG ATTCACCTCAAGGCATCTTCAGCAACCCACATGGCTTCCCTCTGTGCGCATGAAATAACTTGAGG C/TJACGGTCTCTCAGCTTTAAAGCCTTGGAACTCCTATGCATTGTTGTTT
WI-9676f	184	G T ---	---	GGCCACTGTCCAAAGTCTGTACAGTCTCCATATGGCAAGATGAAGAAAATTGGCAATCTTTTAA GGGTACCAAGGNTCTGAGTTTGACGGTCTTTATAATGCAGAGCAAGATGTGGCTTTCCTGGCCCG ATTCACCTCAAGGCATCTTCAGCAACCCACATGGCTTCCCTCTGTGCGCATGAAATAACTTGA GGCCAGGGTCTCTCAGCTTTAAAGCCTTGGAACTCCTATGCATTGTTGTTT
WI-9676e	173	T C ---	---	GGCCACTGTCCAAAGTCTGTACAGTCTCCATATGGCAAGATGAAGAAAATTGGCAATCTTTTAA GGGTACCAAGGNTCTGAGTTTGACGGTCTTTATAATGCAGAGCAAGATGTGGCTTTCCTGGCCCG ATTCACCTCAAGGCATCTTCAGCAACCCACATGGCTTCCCTCTGTGCGCATGAAATAACTTGA GGCCAGGGTCTCTCAGCTTTAAAGCCTTGGAACTCCTATGCATTGTTGTTT
WI-9676d	134	C A ---	---	GGCCACTGTCCAAAGTCTGTACAGTCTCCATATGGCAAGATGAAGAAAATTGGCAATCTTTTAA GGGTACCAAGGNTCTGAGTTTGACGGTCTTTATAATGCAGAGCAAGATGTGGCTTTCCTGGCCCG C/AJTTCACCTCAAGGCATCTTCAGCAACCCACATGGCTTCCCTCTGTGCGCATGAAATAACTTG AGCCAGGGTCTCTCAGCTTTAAAGCCTTGGAACTCCTATGCATTGTTGTTT
WI-9676c	114	A G ---	---	GGCCACTGTCCAAAGTCTGTACAGTCTCCATATGGCAAGATGAAGAAAATTGGCAATCTTTTAA GGGTACCAAGGNTCTGAGTTTGACGGTCTTTATAATGCAGAGCAAGATGTGGCTTTCCTGGCCCG CCCATTCACCTCAAGGCATCTTCAGCAACCCACATGGCTTCCCTCTGTGCGCATGAAATAACTTGA GGCCAGGGTCTCTCAGCTTTAAAGCCTTGGAACTCCTATGCATTGTTGTTT
WI-9676b	92	C T ---	---	GGCCACTGTCCAAAGTCTGTACAGTCTCCATATGGCAAGATGAAGAAAATTGGCAATCTTTTAA GGGTACCAAGGNTCTGAGTTTGACGGTCTTTATAATGCAGAGCAAGATGTGGCTTTCCTGGCCCG CCCATTCACCTCAAGGCATCTTCAGCAACCCACATGGCTTCCCTCTGTGCGCATGAAATAACTTGA GGCCAGGGTCTCTCAGCTTTAAAGCCTTGGAACTCCTATGCATTGTTGTTT
WI-9676a	84	A C ---	---	GGCCACTGTCCAAAGTCTGTACAGTCTCCATATGGCAAGATGAAGAAAATTGGCAATCTTTTAA GGGTACCAAGGNTCTGAGTTTGACGGTCTTTATAATGCAGAGCAAGATGTGGCTTTCCTGGCCCG CCCATTCACCTCAAGGCATCTTCAGCAACCCACATGGCTTCCCTCTGTGCGCATGAAATAACTTGA GGCCAGGGTCTCTCAGCTTTAAAGCCTTGGAACTCCTATGCATTGTTGTTT

WI-9738b	40 C A ---	---	TGGACCAACACAGACAGATGATTCCTGGTGCTGTGTA[C/A]ATTACAACATCAATTGATCACATGC AGCAACATCAACATCTCAAGGAGTCCATTGTTCAAAACACACAGTAAATGACTCCACATTTTCCCTTT GAGTCAACAAAAGACTCTGCTTGTCACCTTGCTGGAGCGGGTGGTTTTTCACTATGTGAGTATCTA TCTTTTATTCTGTCCCTTATGTTGGTGGCACATGCTGTATGCTGTCC
WI-9738	40 C A ---	---	TGGACCAACACAGACAGATGATTCCTGGTGCTGTGTA[C/A]ATTACAACATCAATTGATCACATGC AGCAACATCAACATCTCAAGGAGTCCATTGTTCAAAACACAGTAAATGACTCCACATTTTCCCTTT GAGTCAACAAAAGACTCTGCTTGTCACCTTGCTGGAGCGGGTGGTTTTTCACTATGTGAGTATCTA TCTTTTATTCTGTCCCTTATGTTGGTGGCACATGCTGTATGCTGTCC
WI-9756	47 A ---	---	ACTGAAATGTAATGGCCAAAGGCCACCCAGGACCTTAAAAATCATAAGAAATTAATCTGTGGGAAAA GAGTAACACTACAAAAGCATCTAAACAAGAGCAGGATGTGATGTAATGTGTCCTTATCAGCTTTAGTC AGTAAAGATAAGAAAGCCCTGGTGAGTATCCACTCCACAAACACACAGAAATACACTTTTGGGAAAG ATTCCACTTAACCACCTGATTCTTCACTTTTTTATGATTTAAACCTCCGTTGG
WI-9758	135 A G ---	---	GATGGTCCCTTAAGGATTGCAATTGGTTAATGGGCAGACTGGTGCAAAAAGAGGCTGAATTGAATAAT TAGGAACTGGGAGAAATCAATTCAAGAAAGAAATCTTGTTCGCAAGGTCAATTTTATACATATTA A[A/G]TAAATAACTCTGGTAGGTTCTATAGCAATGCTAAGTAAAGTAAACCGCTGGTTTCTAAATT ATTACG
WI-9778	127 G A ---	---	ATTTAAATCCAGGCAGCGGGGAAATGGATACCTTTCATATGCTCTGTACCCAACTATAAACCTTTTG GTTCTCATGCACCAATTTTCATTTTGCTTCTCACTCCAAAGTACCAGTATTTTACCAGTTT[G/A]CTCTC ATAATTGACTTTGCTACTGGAAGAACTCTTAGAATGTTGGAATTTCTATTACACACTTTGCCTCA AAGAAATGTCAGTCAGGACTAAAGGCAATAGTCTCAGGGCAGACAGCC
WI-9832	116 C A ---	---	TCTCCCTTTGCCCTCCTCATGCCCACTCCCTCAGCCTGCACAGAGCGTTTCTCCAGTGTAGTCTCTGGT CCATCTGCATCAAAATCACCTGCAGGACTTGCTGACAAATGCAGTTT[C/G]ATGGATCCCACCCAGGA CTCAAAAAAACTAGGAATTGGGAGAAAGAGGACCTGGAATCGGTGTTGCTAGCAAGCCCCCAGGTGG TTTGTAAAGTGGACTAAAGTTTGAGGACCAGACATGGAAGGTTGGCTTTGGC
WI-9841	101 A G ---	---	TGGAAAAATAGCTTTTATCAATCTCTGATATGCTACATATGCTATGGAGAAATGCAGAAATGGCATGA TATGAAATTCATTTTGAATGAATAAAATATAC[A/G]GTGTGATGTATATATATATCTTATTAACACTT AGGATTATATACACACAATAAACGCTCTGTAGGATAAACTAAGGTTCTATCAGTGGGAAATGAGA TTGAAAAGAGGGGATGTTTACTTGATATGCTGTTG
WI-9880c	222 G A ---	---	GAACTAACACCTTTCTTGCATGGATTTTCTTGATTATGGCAGTTAACATAAAATGTTATTAGATC ACTGGTCTTCTGTGGGTTGAGTTTTTTATGATATCTCTGTAGACCCATAAGGGAGGCTGTGA GTTGTTTTCTACATCCTTGGACTATATAAGATCCTCTTTTAAATATATATTTTATATAAGCACATGAA AATGGAATGAAATAATGA[G/A]TTGACATAGGAATTACCTACATATTTTG

WI-9880b	157	C A ---	---	GAAC TAACACCTTCTTGCA TGGATTTTCTTGATTATGGCAGTTAACAAATAAAATGTTATTAGATC ACTGGTCTCTCTGTGGGTTGAGTTTTTATGATATCTCTCTGTAGACCCATAAGGGAGGCTGTGA GTTGTTTCTACATCCTTGA[C/A]TATATAAGATCCTCTTTTAAATATATTTTATATAAGCACAT GAAATGGAATGAAATAATGAGTTGACATAGGAATTACCTACATATTTTG
WI-9880a	108	C T ---	---	GAAC TAACACCTTCTTGCA TGGATTTTCTTGATTATGGCAGTTAACAAATAAAATGTTATTAGATC ACTGGTCTCTCTGTGGGTTGAGTTTTTATGATATCT[C/T]CTGTAGACCCATAAGGGAGGCTG TGAGTTGTTTCTACATCCTTGGACTATATAAGATCCTCTTTTAAATATATTTTATATAAGCACAT GAAATGGAATGAAATAATGAGTTGACATAGGAATTACCTACATATTTTG
WI-10183	127	C T ---	---	ACACTGCAGGCACTCCAAATCCTNACAGACATATGCACCTCGGAATCAACTCAGGCATGCACAGCAT CCCTGTGCTGGAGTTATTTTAAAAACAACGCCAGTTATCACAGTTCTCTNTTTTGT[C/T]CACC ATTTCCATAACAAAAGAGCTACACAAAATTNGGGGGGAGANACTCTCTTTGGAGACTGACACATT TGCAGAGGGGTCATGAATAATGATCCAAA
FB25G10b	109	A G ---	---	TCCCTCAATGACAGATGAAC TAAATTTTCTCTGGGTAAGAAATACTTTATGTCCATTGTGATTAAA AAGTCAGATTCAAGACACTGCTTTATGTACAAGAAAAATGGA[A/G]GATTATTAGATCCTCCCCCAG TGACAAAGTAACTGAAC TGAACATATTTATACATAAAATGGAATGTAAGAACCTATTTTGGATATCC CGGAC
FB25G10	109	A G ---	---	TCCCTCAATGACAGATGAAC TAAATTTTCTCTGGGTAAGAAATACTTTATGTCCATTGTGATTAAA AAGTCAGATTCAAGACACTGCTTTATGTACAAGAAAAATGGA[A/G]GATTATTAGATCCTCCCCCAG TGACAAAGTAACTGAAC TGAACATATTTATACATAAAATGGAATGTAAGAACCTATTTTGGATATCC CGGAC
IB3071	102	C A ---	---	ACAACTGAACTTCCATAACAGTCAATGGTACAGTCAACATCACATGTACAGAAACACACAATTTA GATGAACTGAAATTAAGNTAAATAAAATAAAAT[C/A]CAATTTTCAGNAAACAAAAATCAAAAC ATTAAGGNTCCCTGNNTATTTCTTAAACCCCTAATGAGATTTCACCTGGNCTCAAGTCATTTTGTAGTGA GGCATTACAATATGACCCCTATTAAACCCAGTCTAGGGATTCTG
NIB551	161	C T ---	---	CGTCTTCTCTTTTGAGATTGCAATTAAGTAGATAATATGAGAGAGAACTGACAATGGGTTGTCCC TACTGAGCTTGGGCCAGGTGTACTTAGGAACCCCAATCCACCCAGAGAGACTCATCTATGTTA ACACTAAGGATGCCCTGGAGGAGT[C/T]TGACACACATACATGCGGCCATTGGTTGATTTCAGCTTT GCAAGCAGCGTAGTGAGAAACCAAAAGCTTGTCC
S72904	51	G T ---	---	AGCATAGAAAGTGATTATATTTTAAATGTTTCAAGTGAAGTTCCTTT[G/T]AATTTGTCAGTTTC ATTCCTGGAAAAATCTTTTGAGTTAAAAATAAGGATCTCTAGGACAGCACCTCGAACCTACAGGCCCTAAA GAGAAATTGCCTCAAAACCAAGTGTGTAACTTCTCTCCCTTCTGTCAATTGGTTGTTGCTTTAAATA TTGCAAAAGTCTGATGCTAAACAGATTTTGAGTGTTCAGTGTCTGTA

UTR-00481	115	CT	---	TATTCITTTTATCCTGGGCCACAGTTCCTGATTATTCCTCTGTGGTTAAAGACTGAATTTGTAAACC CATTGAGATAAATGGCAGTACTTTAGGACACACACAAAACACAGAC/C/TJACACCTTTTGATATGTA AGCTTGACCTAAAGTCAAGGGACCTGTGTAGCATTTTCAGATTGAGC
ESTC1	33	---	---	CCCTGTAGCAGTCTTCAGCCTCCTCTACCTACNAGATCTGGAGCAACAGCTAGGAAA
ESTC102	37	---	---	GCTACTACCACGGCTGCTTGGTGGACAAAAATAACNAGGAGGATCCACGGGATTAGTTA
ESTC103	21	---	---	GCCATCAAAATTTCTTCACANTCAATACTGTTGAACAACAAGATAACACATCTCTTGCTCATCCC ACTTGAA
ESTC107	20	---	---	TGCTGGCTCACTTCTCACANGCTGTATTACCTTTTCAGAGCTGAGTGAGGCTGTGCT
ESTC109	35	---	---	AAACCAGGAAGGCCCTGCCCGCAGAGGCACATGNACAGGCGAGTGCACAGTGACC
ESTC110	23	---	---	AAACCTCACACAGAAAAAGAGGANAACACTCAGAAATGTGATTACAGATTAGGCA
ESTC113	37	---	---	AAGGGACACAGTGTGCTGACAAGGTGACACTGAACANACAGTTTTCCITTTAATTGTAAGCGGG CATCG
ESTC117	24	---	---	AATTGGCTCTTCCACATGATACNTAAGTTCAAGGTCCAAAGTTCTATCACAATTTACAAAAAGC CTCCA
ESTC119	24	---	---	TGTCAAGCAGATCTTGAGGGTTATNGTTAAGCCTGATAACAGCCTCTTT
ESTC122	34	---	---	GACAATAACACAGCTAAGCTACTGACATAAAATATNCAATAAATTTATGAGATATAAGGTACAGATG AGAAAAATCTGAAA
ESTC123	21	---	---	GAAGCCAGTATGTTGTGGCAANATTCGAGAAAAACACACTGAAAAA
ESTC128	42	---	---	GCAGAGGCATCAGATAAGGCCTCAGAAAAGCCAGGCCATCATNTCCATGGACCAGGCTGGCTCAA TGTTGGAACCTGG
ESTC129	20	---	---	AGTCACCATGCCAGCCTAGNATGAGTTTAGTAAGATTGGTTATGCTGGGGAG
ESTC13	46	---	---	GTGTATCTGGGCTTCATGGGATGCATAAAATTTCCAGTTGGTAAGNAGCAGGTGCCGAGGGTCTGGA TCAGAAAA
ESTC130	49	---	---	GCCTGCTCACAAGGTAGACAAAAACATAAATCTTCAGGAAATGAAACANGAGAGCTGAAACAAT CTACACCTGAATG



ESTC132	30	---	---	---	GGTAAAGTCTAAATTACTGCCTTAGCAAACNCTATGTTGTCAAGGTTTTTCTGCTGCA
ESTC137	21	---	---	---	CCAGTTTGGCTTCTGTCTCCANAGTCTCTCTCCATGIGGCAACA
ESTC139	45	---	---	---	AGGAGCACAGCCTAAGGACATGAAGGTCAGAGTTTCTCAGAGAGNGGGCTGGGTCCCTGAGCTAG GAGGAGG
ESTC14	20	---	---	---	CCCATTTGTGCACAGGAAGNAGAGGAGGCCACGTTCTTACTAGTTCCCTTGCATGGTTAGAAAGC TTGCCCTGGTG
ESTC142	72	---	---	---	CCTAGGCTCATAACAATACAGTCTCAATACAAAAAGACGTAATAATCTATTTTATTTCATTTTAAATC AAAGANACCATTCATTTCCTAACAAACA
ESTC143	29	---	---	---	GTTTACGAAAAGTACTGAAAATGCTATTANTAGCTGAATTTGTGATTTCCCTTTTG
ESTC144	26	---	---	---	AAATCCATATTTCTTGACATGAGGTNGCTTTTACAGCATTTTCGG
ESTC146	20	---	---	---	CATGTCAGGATAAGGAGCANACACCAGGATTTATACACGGTGGCAGCG
ESTC148	42	---	---	---	TCITTTGGTTGCTACACAGACACTTAAGTACTGTATCGCTGTATGCGGGCCTGTGGAGGCCCTCG GGGTGGCTGGGCTGTGCTCTGAG
ESTC149	28	---	---	---	TCAGTTCAITTTATTTGCTTTAAGAGTTANATACCATGAGACACACAGTTCTGG
ESTC15	28	---	---	---	GGATTGTAATATTGCCAGCTTTGTAAAGNCATTAAAGCAGAAGTTTCTTCAGTGATCTT
ESTC150	20	---	---	---	CCAGGAAACAAAGCACACANACTTATAGAATACTTTGGTTTAAAAATTATTCATAATATCAATATT AAACCTGATGTTTAAAGAACCTAATGAGA
ESTC151	49	---	---	---	GAAGCTAAGGCCCCCATTTTTTCTTTTAAATACAAATCTACTGGTGTCTNAAAACTCAGAGCTTAGGA AACACAGCC
ESTC155	37	---	---	---	TTTTTAATTGACAACTCAATCTCTACATACATACAGTNTTGCACGAATTATAAGTGGATCAACAATT ATATTATTGATACAAACTCATGAGCAATTTACA
ESTC156	32	---	---	---	GCAGCATTTGTGACAGGAGAGCGCAAAACAANCTGGCTGCCTCGGGATGGAGCGGGCGGCCTCA CCACCACTGCAT
ESTC158	35	---	---	---	ACCAAGCCCTGGGATTTACTGTCTTGTATGACTACANGGCTTGCACAGTCTGAGATGCTTCAGTGTGC AA
ESTC159	31	---	---	---	AGCTGGCAAGAGACTTCTGAGGCACATCAGNTACGTTGGTCAATTTAGGGCACGGTCTGGTTCTGCA GCTTTGAAAGG

ESTC16	23	---	---	---	CACTGAATGCTCTGCCATGAGCCNCAAGCAGCAGTGATCATCAACCACAGGACAGGTT
ESTC160	38	---	---	---	TTCTAGCATTGCTGGTGCAAGTGGGGCCTGAGCTGGGNGCAGTCGGCAGTGTCACCTGGGCCGTTTG GGACTGGGTTGA
ESTC162	36	---	---	---	CTCTCGTCGGTTTGCAAGTTGCTGTTGTTTCCAGNTACACAGTCAGAGCTCCACAG
ESTC164	31	---	---	---	TCATTCTCCATAGAAATATTGGTTTTGTAAACANGCAATACAATCCAATATATAACATTAAAAACAATCC GATACATACCA
ESTC169	22	---	---	---	GTCTCTGGTGTGCGAGGGAATCANTTTGCTGGATTAGAGGAAAGGTGCCGCCGTCTGTTTCCATGACTT
ESTC176	23	---	---	---	CACCTCTCCCTGAGCTACCCANGTAGTGTCTGGGAGCTGGCA
ESTC177	42	---	---	---	TGGGTGGCTCTTTAAATACCTTCCATTATATTTTCAAAATTTTNCATTTATTTATTTAAATACCTTTTAT TCTCTTTATTTCCCATAAAAAGGCAACCAA
ESTC18	29	---	---	---	TCAGACACTGCCGACATCAGCATTGTCTCNTGTACAGCTCCCTCCCTGCAGGGGCCCTGGGAGAC AACTGGACAAGA
ESTC181	21	---	---	---	TAGGGATTCCAAGTTGCCCTGGNTTTAATATAATACATAATTCACAAAAATTTACACAGCTCATGCATAC CA
ESTC186	43	---	---	---	GCTTGAAGTGGAGGCTACATCACAAATTTATAAAGTGCCAGATNAGTGCTAATTTGTCATTACAGCTTG ATTTTTCACCTCA
ESTC187	24	---	---	---	ACCATGATTGCCTCACACAAGCATNATCAATCGCCACGAGAGACTGGATGCCAAAGAGTATGGCTGG
ESTC188	25	---	---	---	TCTATTAAACAGGGTTATGTCACACCNTGTCAACCTCAACCTCAAAACAGATGATACATCATTGCTTCCAT CTTGC
ESTC189	27	---	---	---	AAAGTACAATCCAGTATATGCAGAAAGNTACTCAGCATCACACTCGTGATCA
ESTC196	42	---	---	---	TCCTCAAATACCACCTTCCCTTAACCTTATCAGTCTAGTAGCNITTTCAAAGGAGGAAAAATGGGTTAC CTTTCAGGGG
ESTC197	26	---	---	---	ATCTCCAGTGTCTGCTGCTCCTCCCTCCNGCAAAGTCTCCACAAAGCACA
ESTC20	33	---	---	---	AAGATTAGACAGACCGCGTATAGTAAGCTCTGNGGAACCTCCAAAGATCTAGAGGGGCTGTGGGAA CGCTGCTTAGATC
ESTC200	44	---	---	---	TTTGGTGAAAAATCCCAATATATGAGTTTAAAAAATAATCATTANCATCATTAACAGTACTTTAAAT CAATTACTCTCTTTGCTGCTGCAACAG

ESTC201	35	---	---	---	TCTTACTTGGGTAGTTTAGCAAAATTTTTAAAANCCACATCCACAGATTGGTT
ESTC202	22	---	---	---	CTGCTGAGGAGGACAGACGNCAGCGGCTGGGTGGCCGCCAGAAAGGCTGGCGTGATGTT CGAGATGAGCC
ESTC203	27	---	---	---	ACACTTAACAGGTTAAAATATCCAAATNAAATTTACTGCAACTTTTGTAGAAATTTTATTTGTGCTAC AAGACACGTTGCA
ESTC208	43	---	---	---	TATAGCCCCATCGCTCTCAGTTATTAGAATCTGAGAGGGATAANAGCAATAACTATTGTTTAAAAGC CTAAGAGTGAAAA
ESTC210	29	---	---	---	GATGAAGTGGCTTCCTTTGGCGAAAGGATNAAGAAGTGAGTGACGGTGACCTGTG
ESTC212	27	---	---	---	GGGTAACCTGATGAGGAAGCTCTAGTGNAGAAATTCAGGACGGGTCTTCAGAGCAGAGGGCTTGGT TCAAGTC
ESTC214	21	---	---	---	CTCCAGAGTCCCTCCTCCANACCAGGGGCAGGAGGATTAGGGAAT
ESTC216	49	---	---	---	TGGCAAGAAATTTATTTACACTAACAAAATTAATTAATCAGGTTATNTTAGATTGGTCAGAAAA CAAAAGACCA
ESTC217	28	---	---	---	TTTTGTCAAGTAAATGAGCAATACACTGANTGAAATCTGCATGATTAATAACATTAAACAAGTTTCAAT AAACACACCCCA
ESTC219	32	---	---	---	GTACACATCCTGGGGTGAGCACACAGCAAAANGGGTGGGACGTGCAGAGAGGTATAGGGTAAAG GCAAGGAAGC
ESTC22	41	---	---	---	TCATTGAAGAAAAATTATGGGTTTTTATCTTATTTCTAATTGNGAGAATGCTTAATGTCACAGGCTACA TAAGGGCC
ESTC223	27	---	---	---	CTTCTGAAGCCCAAGAGAGGGGGCAGAANGTAGTTCTTGATTTAAAAAACAGAAAGGGAGGAGGA
ESTC224	37	---	---	---	CGAAGGTAGATTTCCCTCACATATTACAAAATACACANAACACACACACACACACACACA
ESTC225	20	---	---	---	TGCACTGTTACTCCCCAGACNGAGAGCTTACATACCATATAGAAAGAGCATAAGTGCTTCAGAAAGGA ATGTGTAGGATCG
ESTC23	27	---	---	---	TTCTACTTTATTTTCATATCCCACCACNATAACGACTCCTTTAATTTAACTAAAAACCACACAGGGT TCCTGAAAGGG
ESTC230	43	---	---	---	GCCTTCCTCCACGAATTTGAAAGACATATTGGCTGACCTGATACNTAAGGAGCAGGCCAGAAATTAAGA
ESTC231	24	---	---	---	CAAAAGGGTTAGTCATATTTCCCCANCAACAGCATGATAAAATAATTCAAC

ESTC28	23	---	---	---	GAAGAGCTGGGCAGCATCTGACNITTTCTTCTCTATTCCTATAAAAAATAAAGGAGCAGAAAATCT GC
ESTC3	20	---	---	---	CAGACATGACCTACCGTCCNGGCCCTCAATTCATATTTATCTTGAGCCGCTTGGTCAGGTTTGAT TCGCACACTCC
ESTC31	32	---	---	---	ACAGCCCCACAGAACTATTGTAAACAATAATNTCAGTCGGTGATCATTGTAATATACAATACAAAG CAATTTCTCTAGA
ESTC33	25	---	---	---	AGCACTTCCAGCTCCTTGACGTTGTNGGACCAGGGAACCTCCGGAA
ESTC39	26	---	---	---	AAGGAAAGGGAACCCACCTGGGCTTNGGTCACAGAACTCAGAGCCTGGGCATTA
ESTC4	23	---	---	---	CCACTGAATCACACAACATGGACNAATCTCAAATCATTTATGCTGATGGAAAGAAACCATT
ESTC40	22	---	---	---	GGCATGCTAGACAGAGGCATTANTTTGAAGATCTTTAAAAATATTTGACTTGTCCCCCTTCAC
ESTC45	37	---	---	---	TTTGGAGGTTTGTCTGGAGTTTGTCTTTGTAAACNCTCTCATCGAGGCTATATATAA
ESTC50	56	---	---	---	CTGTCCGTGGTGAGCCCTGCCGCTGCCATGGGCCAGGAGCCACTGGTGGGANCCGGGCAGATG TTTACCCTGT
ESTC56	45	---	---	---	GTGCCCTGAAGATTAGCAGCAGCAGCAGCAGGTGGCAGGAAGNAGTGGAGGAAAGGACACCA AGT
ESTC57	20	---	---	---	AAGTGGGCCCTCCAGTCCCTCTCTGGGCACAGATCCCACAGTCTGCTC
ESTC59	38	---	---	---	GAAACACAAAAGTGTGAGAAAAAACTTCTCAAAATNGTTCAGACTTCAGGAAAAATGATTTCC ACATGGTAAGGCC
ESTC6	27	---	---	---	TCTGAGCAGCTTCACTACCAATGAGCNITTAGCTACTTTTCAGAAATTGAAGGAGAAAAATGCATTATG TGGACTGAACCG
ESTC61	57	---	---	---	AGTGATTTTGGCTAGGCGTGGTTCTCATCTGTGAAATTCACAGCGCAATGACAGCANCTCTCTCCC ACCCACTCAAG
ESTC63	20	---	---	---	ACAGACAGCATCACACCANAGGGCCCCACGGGAGGTCTGGGAGACGACACTTTTCCCTGGGAAA GGCAGCTCTAATC
ESTC69	20	---	---	---	GAGAGGCTAGTCAGGAGGGANACCCTCAAGTTAAATCCCCACACTTACTTACTGCTCATCCGT CACTTTCGCTAA
ESTC7	45	---	---	---	AGTTTCCCTAGAGCTGTGGGCCAGATAGCTGTCTCTGAGTTGCANGCAGATGGAGATTTGGACACT G

ESTC72	37	---	---	---	GGGCTTCCAAATGGGTATTGGGGCCAGGAGGCTGGCCTTTGGCGTGACGCCTAAAAAGTGTGACC AACAAATTCACAGCTACAGGAAATCTAGAACAAAATCAAAATATTCATCACNTTGGGTTGAAAAAGTTG GAAGA
ESTC74	49	---	---	---	ATGACTTTCTGTCTCCATCGGAAACCAGAGTTTCCCCAGNGAGCCCTTCTATCTGCGGTTA
ESTC77	40	---	---	---	GGCTCAGCACAGGATAAGANCCCCACTCCGCTGTCGCCAGAGGGCAGCACTCCAG
ESTC81	20	---	---	---	TTTCAGATGATGGGGTCTGAGATGNTCCCTCAGGCTGCATCAGCTGTCTTCAGTCTCCAGAACAGAAA GAGCCTGACCCA
ESTC82	25	---	---	---	CAAAATCAAATACACAGATCCAGATATGTGAACCATATATACATATCTATACANCCATTATTAGAC TTTCACAAACCT
ESTC83	53	---	---	---	TTTAGCTGTATACCAAGTTTCCATAAANCTGTCTGCTGGTGGGAGGCTACAGCCTGACCACATTC TTTGC
ESTC85	28	---	---	---	ATTGCAAAGGAAGTGAACGTGNTCAAACAGAAATGGTGACAATGA
ESTC89	22	---	---	---	CTGGTCTCTCGCTTGGCATTGCTCCTCCTCNGGCCAGTGTCCACCCAAAGTGTCTTCCCGATGAT
ESTC90	33	---	---	---	CTCCCTCCTCAGTTCACAGTGGAGACTANGGAGATTGAGGGCAGGATCC
ESTC93	29	---	---	---	GCACGTCTTTGTTCTCTCTCCAGAAGTTGNAGAGTCTATTAGTTGATTATCTGTGG
ESTC95	32	---	---	---	AAATGACTTGACGAAGCTCATAGAAAGATTAGCAGGTAGTAGAATAATGACTGCTGACTCCTAATTCA GTGGATCTTCCCTGGCCACCCTTTTGTATTGAGCTGCAATGCTTCTGACTGTCTCCAC/TTGCCAG ATCTTATCAATGATCTTTCACCTAAGAAACAGCAAAAGATTCTGGCAAGCACACGATCTAGAGATAC ATCTTATTGCGATTTTTCACAAAAATCAAAAAGAAAGAAAGGCTTAGCTG
DWU-100	127	CT	---	---	TTCCATCCTAGATATCTACTCAAATAATTGAGACAAAGTTTCAAACAGAAAGACGCTTGTGTGAA TGTTTCATGGC/AGGCCCTATTACAGTAGCCAAACGATGAAACAAACCCCAAGCTATATATACCA GATGAAAGGATAAAACAAAATGTGGTCCATCCATACAAATGGAGTATTACACAGCCATAAAAAAGGAAT GAAGCAGTGATCCCTACTACACTGTGGAT
DWU-177	77	A	G	---	CAAAATACCTGGACTATCAACCTTGTGTGCTTAATCCCTGCAGCATTCAAGGTTAATCCATCAAGTGAC ATTTTGAATTCAGCGGTGCCACCCAATCATGCCAGCTTCTGTATATGAATGAGATATACATTT ATGCTGACCTTCCCTCAAGACTGATTTTTCATGTCTGGGACTTACAATATCTCAAGGAAACAGCAATG TCAACAGGG/ACTGGGAAACCAGCCCTATCTGAGTCTCGGCTCCCTCC
DWU-286	213	A/C	---	---	

DWU-252	94 A G ---	---	AGTATACAAACATTTAAGCTGTGGTCAAGGCTACAGATGTGCTGACAAGGCACTTCATGTAAAGTGT CAGAAAGGAGCTACAAAACCTACCCCTCA/GJTGAGCATGGTACTTGGCCCTTTGGAGGAACAATCGGC TGCAATTGAAGATCCAGCTGCCTATTGATTTAAGCTTTCCTGTTGAATGACAAAGTATGTGGTTTTGTA AT
DWU-330	85 C T ---	---	GAACATTCCTCTGCAGCACTTCACCTACCAATGAGCATTAGCTACTTTTCAGAAATTGAAGGAGAAAA TGCAATTATGTGGACTGA/CJTCGACTTTTCTAAAGCTCTGAACAAAAGCTTTTCTTCTCTTTTGCAA CAAGACAAAAGCAAAGCCACATTTGCATTAGACAGATGACGGCTGCTCGAAGAACAATGTCAGAAAA CTCGATGAATGTGTTGATTTGAGAAATTTACTGACAGAAATGCAATCTCCCT
DWU-370	231 A G ---	---	GAAATGTTAATTGGCAGGTGAAAAGGTACAGATGTGCTGTAGCAGACCTTTGGTTTTAAAGAG AAGCATCATTTCCCAACAGGGCAACTGTAGAAGGCCAGCTGAAGAGTAAAGGAAAGTCTGAGG ACTGAGCCTGTGGCTGGCTGGAAAAAGGTGAATGTTGAGGCCCTTCACTTCCATCACAAGAAAGTC ATTAGACGGTACCAATTCAGTGTCTGTTCTTJA/GJGCATCTATTCTCTCTGTGC
DWU-1537b	89 A G ---	---	CTCTTAACCTCAGTTCCTCATCTATAAGAAATAAGGGATTGATGTGATCAGATAGCTCAGGTAATC CAGGACCAGAAACCCAGGAGCJA/GJTGAGACCTGATCCACAGCTAGAGGATGGGGACTCTGTAGCT ACAGCATTTCTGACACACACAAGAAATCCAGTAAGCAGCACACACTGGCTGA
DWU-1537a	52 C T ---	---	CTCTTAACCTCAGTTCCTCATCTATAAGAAATAAGGGATTGATGTGATCA/CJTAGCTCAGGTA ATCCAGGACCAAGAAACCCAGGAGCATGGACCTGATCCACAGCTAGAGGATGGGGACTCTGTAGCT ACAGCATTTCTGACACACACAAGAAATCCAGTAAGCAGCACACACTGGCTGA
ESTD-ADAb	196 C G ---	---	ACCATCTTACTATGGCAGGTAAAGTCCATACAGAAGAGCCCTCTCTCCCTGGGATTTGAGTGGGGTC CCCAGCTCCACCAGAGGCCCTGGGGAATCCAGGGTCACTGTCTCTCTCTCCCTGTGGGAAT CAAGCCAGCTCCAGGCCAGAAAGTGGGACTGTGAGGACATGGAGCCCTCGGCACTGAGCTG/CJGAGA CCCGCAGACCAACTCCTGAGCTTTCTGGGCCCTCTGAGCTTGTCTCTC
ESTD-ADAA	184 G A ---	---	ACCATCTTACTATGGCAGGTAAAGTCCATACAGAAGAGCCCTCTCTCCCTGGGATTTGAGTGGGGTC CCCAGCTCCACCAGAGGCCCTGGGGAATCCAGGGTCACTGTCTCTCTCTCTCCCTGTGGGAAT CAAGCCAGCTCCAGGCCAGAAAGTGGGACTGTGAGGACATGGAGCCCTCG/CJGAGCTGAGCTGCAGA CCCGCAGACCAACTCCTGAGCTTTCTGGGCCCTCTGAGCTTGTCTCTC
ESTD-ANT1	160 T C ---	---	TCTCCTGTCACTTCTACTCCATTAGTTCAAGGTCAAGTGAAGAACTGGGCAATTAACCAAGTAATTCA TGGACTGCCCAACTCGGAAACAAGAGGGCCGAGTGGAGCAGGAGTATTATGCTACGCGGTACCTT TTTTATGGAGGACCGAACTGAGGCT/CJGAGCTCAGATGATCCTGT
EST10398 2b	168 A G ---	---	TGCCTGGGGTGGCAAGGCTGCAACAAGGAGGCAACCCAGGAGGCTTTTATGAAGCGGGCCATGGTA AGATGCTGCCACCTCTTATCTACTTGTATGATGTTCACATTTGGGGCTTGACTTTCCAACACGGAGAAG CATGTTTTCTCGGGCCAAAGGATATCTACCJA/GJATAGTGTCTATTAGGCATTG

EST10398 2a	147 C T ---			TGCCTGGGTGGCAAGGCTGCAAAAGGAGGCAACCCAGGAGGCTTTATGAAGCGGGCCATGGTA AGATGCTGCCACCTCTTACTACTTGATGATGTTACATTTGGGCTTGACTTTCCAACACGGAGAAG CAITGTTTCTTTC/TJGGCCAAAGAAGGTATCTACCAATAGTGCTATTAGGCATTG
ESTD-C7	14 G C ---			ATATGTGGCCTTA[G/C]TTACCTAGAGCTGGACAATCCTGCTGGA
ESTD- D4S95	90 T C ---			CTTTCATGCACGATAGGCTTCTCTACTAATCACAAGAAATTTGAGAAGAGCAAAACAACCTTCAAGG ATAATGGGGCAATCACCTTCTTTT/C]CTTCTTAGAGTCTACCGG
ESTD- GPPK2L	38 G A ---			AGTCTTCATCTCGGGTGTCCAGGTAGATCCCTTTTACCC[G/A]CCGAGAACTGCTCGATATC
ESTD- HRASb	82 A G ---			CTGGCTGCGCCGACGAGCTGCTGGCACTGGACGGCGGCGCCAGGCTCACCTCTATAGTGGGTG TATTCGTCCACAAA[A/G]TGCACTCTGGATCAGCT
ESTD- HRASa	37 C T ---			CTGGCTGCGCCGACGAGCTGCTGGCACCTGGACGG[C/T]GGCGCCAGGCTCACCTCTATAGTGGG TCGTATTCGTCCACAAAATGCATCTGGATCAGCT
ESTD- NRAMP	81 A G ---			GGAGGACGAGGTGGGAGGGGTCTGCTCTCCAGGTCCACAGACCAGAGAGCGGCTCAGTG TATCCCCACCCCA[A/G]TGTGGCGCTGGGAGATGAAGAGGATGATGCAGGT
ESTD-OTC	18 A G ---			GTGACCTTCTCACITTA[A/G]AAACTTTACCGGAGAAGAAATTAATATATGCTATGGCTATCAGC AGATCTGAAATTTAGGATAAACAGAAAGGAGGATGTAAACA
EST36751 7	36 C T ---			CCAAGTCGTTCAATTTAGCTTTGCAGGTTTAACT[C/T]GATTACTTTTCTATTCAATCTCTGTA AAATTGAAATATGAACCTAGTTTCTGATCTATGGTTCAAGTTAAACAG
EST40562	109 A G ---			CACGTGAAAGGAGCTATTTTGGAGGCTTTAAGAGTAAAGAACTGTCCCCAAAACCTGTGGCTGAC TTTATGGCTAAGAAGTTTCACTGGATGCAATTAATAACAAAT[A/G]TTTACCTTTTGAAAAATAA ATGAAGGATTTGACCTGCTTCGCTCTGGAAGAGTATCCGTACCGTCTGACGTTTGAACAATACA GATGCCTTCCCTGTAGCAGTTTTCAGCCTCCTCTACCCCTA
EST18288 3	121 C T ---			GCTCTATACCCCTGTGGTCTCCACGCTCTCTGGACTTCACAGAACTGGATGTTGCTGAGAA GATTGACAGGTTTCATGAGGCTGTGACAGGATGGAAGACTGGCTGCCCTGA[C/T]GGGAGCCAGT GTGGACAGCACCCCTGGCTTTCAACACCTAGCTCCACTTCCAAGGTAAAGGCAAACTCTCTGCTGGCTC TGGCCCTAGGACTTAGTATCC
ESTD-AK- 168	31 C T ---			GGGAGTGACAGCTAGAGCACCAAGGGGGGCT[C/T]TACAGCTGTGTTCTCATGGAGGACAGGCTTCT GCTCATCTGG
ESTD-ALB	180 A G ---			AATCCAGCACTTTAGGAGGCTGAGGCGGCATATCACCAGAGGTCAGGAGTTTGAGACCAGTCTGA CCAACATGTTGAACCCCATCTCTACTAAAAATACAAAATTAGCCAGGCGATGGTGGTGCATGCCTGT AATCCAGGAGGCTGAGGAGGAGGAAATCGCTGAACCTGGGAGGCG[A/G]AGGTTGTGGTGAGCCGA GATGGCACCATTGCACTCCAGCTGGGCAACAAGAGTAAACTCTGTCTTC

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EST70523 3	182 G T ---	---	TTCCGGCAGCCCCCATCTTGGCACCCCTGGTCCCCCTCAGGGGCCACCCCGCGGCACCTACCCGCTCT CGCTCTCGGTAAACATCCGGCCGGCGCGCTCTTGAACACATAGCCTGGACCGTTCCGTATAGGAGG ACCGTGTAGGCTTCTGTCCCGGCCCTTGCAGGGGCCAGCCCTG/TJ/CAGAGAGAGGGGTCCCTGT GGTTGAGCTGAACACAGCTGTGGAGTGTCTCCACGTG
ESTD- APOA2	101 C T ---	---	CCAGGTGTTGTGGCACGTGCCTGTATCCAGCTACTCGGGAGACTGAGGCATGAGAATCTTTTGAAC CGGGGAGGCGGAGGTTGCAGTGAGCTGACATCG/C/TJ/GCCACTGCACCTCCAGCCTAGGTGACAGAGC AAGACTCC
EST58707 7	112 C T ---	---	CAGTGTATCTGGAAGCCTACAGGACACCAAAATAACCTTATCATCAATTGGTTACAGGAGGCTTT AAGTTACAGCATCTTTGGCTCACATGAAGGCCAAATCCGAGAGAC/C/TJ/TAGAAGATACACGAGAC CGAATGTATCAAAATGGACATTCAGCAGGAACCTTCAACGATACCTGTCTCTGGTAGGCCAGGTTTATA GCACACTTGTCACTACATTTCTGATTGGTGGACTCTTGTCTGAAGAACCTT
EST74167 6	137 C ---	---	AGACCATGAAGGAGTTGAAGGCCTACAAATCGAACTGGAGGAACAACCTGACCCCGGTGGCGGAGG AGACGGGGCACGGCTGTCCAAGGAGCTGCAGGGCGCGCAGGCCCGGCTGGCGCGGACATGGAGGA CGTGGCGGCCGCTGTGTGAGTACCGCGGCGAGGTGCAGGCCATGCTCGGCCAGAGCACCGGAGGAGC TGCGGGTGGCCTCGCTCCACCTCGGCAAGCTGCGTAAGCGGCTCCTC
EST43211 8	132 C ---	---	CGCTGTGTGCAGTACCGCGCGGAGGTGCAGGCCATGCTCGGCCAGAGCACCGGAGGCTGCGGGTGG CCTCGCTCCACCTGCGCAAGCTGCGTAAGCGGCTCCTCCGCGATGCCGATGACCTGCAGAAAGCGCC TGGAGTGTACAGGCCGGGGCCCGGAGGGCGCGGCGGCTCAGGCCATCCCGGAGGCGCTG GGGCCCTGGTGAACAGGCGCGCTGGCGGCGCCTGCTGGGCTC
ESTD- ARSB	126 A ---	---	GGAGAAATGGAGCTGTGGGAAGGAGGCGTCCGAGGGTGGCTTTGTGCAAGCCCTTGTCTGA AGCAGAAGGGCGTGAAGAACCGGGAGCTCATCCACATCTCTGACTGGCTGCCAACACTCATGAAGCT GGCCAGGGGACACACCAATGGCACAAAGCCTCTGGATGGCTTCGACGTGTGGAAACCACATCAGTGAA GGAAGCCCATCCCCCAGAATTGAGCTGCTGCATAATATTGACCCAAAC
EST36770 4	144 C ---	---	TGTAGCCAAAGTCACCTGCATCATCATTTGGCTGCTGGCAGGCTTGGCCAGTTTGGCAGCTATAATCC ATCGAAATGTATTTTCATTGAGAACACCAATATTACAGTTTGTGCTTCCATTATGAGTCCCAAAT TCAACCTCCCGATAGGCTGGGCTGACCAAAATATACTGGTTTCTGTTTCTCTTCTGATCAT TCTTACAAGTTATACTCTTATTGGAAGGCCCTTAAAGAAGGCTTATG
EST26021 1	137 A ---	---	TAATGTAAGCTCATCCACCAAGAAGCCTGCACCATGTTTGGAGTTGAGTGACATGTCGAAACCTGT CCATAAAGTAATTTTGTGAAAGAAGGAGCAAGAGAACATTCCTCTGCAGCACTTCACTACCAAAATGA GCATTAGCTACTTTTCAGAAATTGAAGGAGAAATATGCAATTATGTGGACTGAACCGACTTTTCTAAAGC TCTGAACAAAAGCTTTCTTCTTTTTCGAAACAGACAAAGCAAGGCC
ESTD- BA511	29 A G ---	---	GGGCAACATAGTGAACCCCATCTCTACA/A/GJ/AAAATACAAAAATTAGCCAGGTGTGGTAGCAAG TGCCTGTAGTCCAGCTACTTGGAGGCTGAAGTGGGAGGATCCCTTAAGCCTGGGAGGTGGAGGCTG CAGTGAGCCAAGATGGTGCCACTGCA



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ESTD- BCL2	116 A G ---	---	AGCTGGATTATAACTCCTCTTCTTCTGGGGCCGCTGGGTGGAGCTGGGGCGAGAGGTGCCGTT GGCCCCGTTGCTTTTCTCTGGGAAGGATGGCGACGCTGGGAGAAC[A/G]GGGTACGACAACCGGG AGATAGTGATGAAGTACATCCATTATAAGCTGTGCGAGAGGGCTACGAGTGGGATGCGGGAGATGT GGGCGCGCGCCCCCGGGGCGCCCCCGCACCGGGCATCTTCTCTCTCCCA
ESTD-BCR	69 C T ---	---	CAGTGGCTGAGTGGACGATGACATTCAGAAACCCATAGAGCCCCGGAGACTCATCATCTGGCGAAGA GA[C/T]CAAGAGGTCAGCTTCTGTTGTCGCCGGAAAGGAGGCGAGGTGACAAGCTAACTCTGCTTC AAAATCAACCATCCGGTGGACACTGTGTGGCTGCCATCTGCCTGGCACA
ESTD- BRCA1aa	119 C T ---	---	AAGAAAGAAACTAGAAACAGTTAAAGTGTCTAATAATGCTGAAGACCCCAAGATCTCATGTTAA GTGGAGAAAGGGTTTGCAAACTGAAAGATCTGTAGAGAGTAGCAGTATTTCA[C/T]TGGTACCTGG TACTGATTATGGCACTCAGGAAAGTATCTCGTTACTGGAAGTTAGCACTCTAGGGAAGGCAAAAACA GAACCAATAAAT
ESTD- BRCA1bb	139 A G ---	---	ACTAAATGTAAGAAAAATCTGCTAGAGGAAAACTTTGAGGAACATTTCAATGTCACCTGAAAGAGAA ATGGAAATGAGAACATTTCCAAGTACAGTGAGCACAATTAGCCGTAATAACATTAGAGAAAAATGTT TTTAAAG[A/G]AGCCAGCTCAAGCAATATTAATGAAGTAGGTTCCAGTACTAATGAAGTGGGCTCCA GTATTAATGAAA
ESTD- BRCA1cc	126 A G ---	---	ATGCATCTCAGGTTTGTCTGAGACACCTGATGACCTGTTAGATGATGGTGAATAAAGGAAGATAC TAGTTTGTCTGAAATGACATTAAGGAAAGTTCTGCTGTTTTAGCAAAAGCGTCCAGA[A/G]AGGA GAGCTTAGCAGGAGTCTAGCCCTTTACCCCATACACATTTGGCTCAGGGTTACCGAAGAGGGGCCA AGAAATTAGAGTCTCTCAGAAGAGAACTTATCTAGTGAGGATGAAGAGCTTCCC
EST51212 0	122 A C ---	---	ATCCTGAGCTCGCCAATAAGCTTCTTGGTTCTACTTCTCTCTCCACAAGCCCCAATTTCACTTTCTCA GAGGAAATCCCAAGCTTAGGAGCCCTGGAGCCCTTGTGCTCCCACTCAATACA[A/C]AAAGGCCCT CTCTACATCT
ESTD-C1R	40 A G ---	---	ACACAGGTGCTGGCACTGGGGCTGGGGATCCTCCTCCCT[A/G]ATTGCTCCGGGAAGCACATTCAT CAA
ESTD-C1R	40 A G ---	---	ACACAGGTGCTGGCACTGGGGCTGGGGATCCTCCTCCCT[A/G]ATTGCTCCGGGAAGCACATTCAT CAA
ESTD-C6	31 A C ---	---	CCCAGTCAGTTGGGGGACAGCCATGCACTG[A/C]GCCCTCTGGTAGCCTTTCAACCATGCATTCCTATC TAAGCTCTGCAAAAT
EST20118 2	119 C ---	---	GTTCGGAATCCTCCTCTGAAAGTGGCCGGTTTAACTGCTCATGACGCTGGGGCTGTGGTCCAGCT GAGTGAAGGGGCTTGAAGCTGGGAGTGGGTTTAGGACGCGGGTCTCTGCGTGATCCTAAGCTCT GAGAGCAAACTCCCTTGAAGCTGGGAGTGGGTTTAGGACGCGGGTCTCTGCGTGATCCTAAGCT CTGAGA
EST53018 6	67 A G ---	---	ACAATCCAGGTACACATTCAGAAAGAGGGGTGTCAGTGAGCCTGGGTAGGTCCAGTAATCCA [A/G]GGATTACGAAGAGGCCACGAGGATCGAAGTTAGTGAAGTC

ESTD- CB22	119 C T ---	---	GGCAAGTTTTATTGATAGAGAGGAAATCAATAATGGCAATGAGGAGACATCACCTGGAATGTTAG GCAGTGCCTAACTGGGGATGGACAGACAATGGGAGTGCCAAACCCATAGGG[C/T]GGATACAAAAG ACAGGCAAGGAAGGGTGAACCATCAAGAGGAATAGGCTGGTACCCTCAAGCAAGGAGGACCT AGTAAATAATTGTCCTCATTAAGTCCCTCCCGGCTTCTCTCACACAC
ESTD- CB23	136 C ---	---	TAGAACCATCAAGAGGAATAGGCTGGTACCCCAAGCAAGGAGGACCTAGTAAACATAATTGTGC TTCATTATGGTCTTTCCCGGCTTCTCTCACACATACACAGAGCCCTACCAGGACCAGACAGCT CTCAGAGCAACCCCTAGCCCCATTACCTCTCCCTTTCCAGAGGACCTGAAAAACGTGTCCCACCCGA GGTCGTGTGTTGAGCCATCAGAAGCAGAGATCTCCACACCCCAAAA
ESTD- CB24	145 A ---	---	ACCAGGACGACAGCTCTCAGAGCAACCTAGCCCCATTACCTCTTCCCTTTCCAGAGGACCTGAA AAACGTGTCCCAACCCGAGGTGCTGTGTTGAGCCCATCAGAAGCAGAGATCTCCACACCCCAAAAG GCCACACTGGTATGCCCTGGCCACAGGCTTCTACCCCGACCAAGTGGAGCTGAGCTGGTGGGTGAATGG GAAGGAGGTGCACAGTGGGTGAGCAGACAGACCCGAGCCCTCAAGGAG
ESTD- CB25	146 A G ---	---	GTTTCTTTCAGACTGTGGCTTACCCTCCGGTAAGTGAGTCTCTCTTTTCTCTATCTTTCCGGCTC TCTGCTCTCGAACCCAGGGCATGGAGATCCACGGACACAGGGGCTGAGGGAGCCAGAGCCACCTG TGCACAGGT[A/G]CCTACATGCTCTGTTCTTTGCAACAGAGCTTACCAGCAAGGGTCTCTGCTGCTGCC ACCATCCTCTATGAGATCTTGCTAGGGAAGGCCACCTTGATGCCGTG
ESTD- CB27	125 C T ---	---	TTTTCTGTTCCCTGAAGATTGAGCTCCCAACCCCAAGTACGAAATAGGCTAAACCAATAAAAAAT TGTTGTTGGGCTGGTGCAATTCAGGAGTGCTGTGGAGTCTGCTGCTCATCTAGC[A/T]TATCTTC TGATTTAGGGAAGCAGCATTCCTTGGACATCTGAAGTGACAGCCCTCTTCTCTCCACCCCAATGCT GCTTCTCCTGTTTCATCTGATGGAAGTCTCTCAACACCATTTCCATAACC
ESTD- D4S338	59 A T ---	---	TTTTCTGTTTACCTTGTTCAGATCCTTCAGAGGAATCCCTATATATGGCAGGTATATGA[A/T]ATGTA TTTCTTAAACAATAAACTTGAAGTCCAAAATTACTCCTTGATCCATGGACTGCAGAATAAATGTTA TTTTAGCTGTCAGAAAAACAATACTAATCTTTGCATATGTTTCATCAGAGCCCTTGGGTGACCAGGTGA TTGCCAATAAGCAGTAATTTTGAAGGAATCTTGTTTCAATGCAGTAG
ESTD- CYP2D6	61 A G ---	---	CAGGCCAGGTGTGTCAGGTGTCACCATCCGGCAGAGAACAGGTCAGCCACCACCTATGC[A/G]CA GGTTCATCATTTGAAGCTGCTCTCAGGGTTCCTTGGCCTGAGCAGGGCCGAGAGCATACTCGG
ESTD- D11S1873	40 A C ---	---	AAAAAACATTTTAACACCTTTTCAATCATATACACCAT[A/C]ATTTCCATTTTTCACATAAGTCA GTTTGAGCTGAGTTTCCAAATTAATTGCAATCTAAAATGTCAATACTGATTAATGCAAGTTCAACAG ACAACTTTCCCAAGCATCTACGATCAGAAAGGTCAAAATATTACATATCTGGATTAAATTATGCCCA TATCTGCAATGTC
ESTD- D17S33b	169 C T ---	---	CATCCCCAAGCCCATCCTTAGCCACTGGCATTTTTTGGCCCTCTGCAGATACACTCAGGGCCGT CATGCTGCACACATCCAGGGGGGCCCTACCTTTTGTAGTCCATGGAAAGGCTCCTCTGGGGCGGTG GGGTGTGTGGCTATGTGGTGGTCTTGTGTAGA[C/T]GGGGGCTTTGGTTTCAGTTGCATATTGCGTT ATTGCAGATTGCTTTGCTTTCCACCTTGAGCGAGCCCTC

ESTD- D17S33a	75 C T ---	---	CATCCCCAAGCCCATCCTCTAGCCACTGGCAATTTTGGCGCCTCTGACAGATACACTCAGGCGCGT CATGCTG[C]/ACACATCCAGGGGGCGCCCTACCCTTGTAGTCCATGGAAAGGCTCCTCTGGGGCG GTGGGTTGTGTGGCTATGTGGTGTCTGTGTAGACGGGGCTTTGGTTTCAGTTGCACATATGCGGTT ATTGCAGATTGCTTTGTCTTTCCACCTGAGCGAGCCTC
ESTD- D18S8	133 A G ---	---	TTTGAGACCACCCCTGGCCAACATGGCGAAATCACATCTCTACCAAAATTACAAAATTAGCTGGGTGT GGTGTACATGCCTATCGTAATCCAGCTACATCGGGAGGCTGAGGCAGGAGAAATGCTTGAACCC[A] /G/GGAGGCAGAGCTTGCAGTGAGCCAAGATCACACCACTGCACCTACAGCCTGGGTGACACAGTGGGA GACTCTGTCTCAA
ESTD- D3S11	44 G -- ---	---	AACTGATTAGAACCTGAAATACATAATTTATCTGAAAAAGTCGAGTTATTGGCTCATCACATTGG AATTTTGCATCAATTAATAATCCAAATAAAGTACACTGTAATAAAGAAATTTAACAGAATATCATTTGT TTATTCAAACTATTTATCAGCTAATTTTATTGGTAAGCCATACTAAATCTAAAGCATGTTTCTGAAAG TTTA
ESTD- D3S12	37 A G ---	---	AGGTTCCACATTATTGCTGATGTTGCTGATGTTTCC[A/G]GGAGCCTTGATGTCATTCTGTATCTCCT CAGGTATCCACCTTGAGACGTACTTTTCAAAAACCTCTACAGCCGTTGTTGTTAATTAATCAAGGT TGAACATAAAGTA
ESTD- D3S2b	247 C T ---	---	GATCATGTGGCCCAAGTGGCAGAGCTACTTATACCATGACCCAGACCTGCTAGCAGAACATTTCCCTGC TGAGTCTTATTCAAAACGTACAGCCATTTATGCCACCTGAAATATGGCAGGTTACAGCTGTATCCC AGAAAGTGAACATACCTGCTCCTAGAACCCAGAGTCATACCTGATGTTCTGTTTCGGTCTTACGATGG CAGGTATGAAATATAATAATCTGTCTCTTTATTTGGAAGGATGC[C]/TJGGT
ESTD- D3S2a	248 G -- ---	---	GATCATGTGGCCCAAGTGGCAGAGCTACTTATACCATGACCCAGACCTGCTAGCAGAACATTTCCCTGC TGAGTCTTATTCAAAACGTACAGCCATTTATGCCACCTGAAATATGGCAGGTTACAGCTGTATCCC AGAAAGTGAACATACCTGCTCCTAGAACCCAGAGTCATACCTGATGTTCTGTTTCGGTCTTACGATGG CAGGTATGAAATATAATAATCTGTCTCTTTATTTGGAAGGATGCCGGTATGT
ESTD- D7S399	83 A G ---	---	TGAATCTTAATTGCTATCTCTACAAATGTATAAATCCTGAATCTGACATCTAGCCACCTCCATAGAT AACTGCTAGAGACCC[A/G]GTCTCTCTACATCATCCTTTTCAAAACATTTTCATCCATGGACTCCATAC TAGAATATTTGAAGAAACAACATGACAAACATTTTC
ESTD-DMb	146 A C ---	---	GTGGGACACCGAGGGCTCCAGGCTGGGGCTTGACAGTGTGGCTCAAGCAGCTGCTCGGCCCTCCACT TCCATGGGTGTGGGGCTGGACCTCACTGTCCCTGGGAGAGGAGGAGGAGTGGGAGGGAGACA GAATGCTGATT[A/C]TCTGTGTGGAGAACCAAGAACTTCTGGCCTGTGGGTAGGGGACAGCTGCTTCCAAG ACCTCCTGATTGTAGGAAGGGGAGCAGCAGAGCGAAGAGAACAGAT
ESTD-DMa	66 C G ---	---	GTGGGACACCGAGGGCTCCAGGCTGGGGCTTGACAGTGTGGCTCAAGCAGCTGCTCGGCCCTCCAG[C] GJTCCATGGGTGTGGGGCTGGACCTCACTGTCCCTGGGAGAGGAGGAGGAGTGGGAGGGGAGA CAGAATGCTGATTATCTGTGTGGAGAACCAAGAACTTCTGGCCTGTGGGTAGGGGACAGCTGCTTCCAAGA CCTCCTGATTGTAGGAAGGGGAGCAGCAGAGCGAAGAGAACAGAT

ESTD- DRD1	154 C T ---	---	TCCCAGCCCTATCGGTCTATTTGGACTATGACACTGACGTCTCTCTGGAGAAAGATCCAAACCCATCAC ACAAAACGGTCAGCACCCCAACCTGAACCTGCAGATGAATCCTGCCACACATGCTCATCCCCAAAAGCT AGAGGAGATTGCTCTGGGG[C]/TTCGCTATTAAAGAACTAAGGTAC
ESTD- DRD2	144 C --- ---	---	TCTGCCTTTGGTGCAGGAGGCTGCCCGGAGCCAGAGCTGGAGATGGAGATGCTCTCCAGCACCA GCCACCCGAGAGGACCCGGTACAGCCCCATCCACCCAGCCACCCAGCTGACTCTCCCCGACCCCG TCCCACACGGTCTCCACAGCACTCCCGACAGCCCGCCCAACCCAGAGAAGATGGGCATGCCAAAG ACCACCCCAAGATTGCCAAGATCTTTGAGATCCAGACCATGCCCAATG
ESTD- DRD3	109 C T ---	---	AAGACGATGGCCAGGATGAGCGCGCAGTAGGAGAGGGCATAGTAGGCATGTGGGGGGCCTGGCTGG CACCTGTGGAGTTCTCTGCCCCACAGGTGTAGTTTCAGGTGG[C]/TJACTCAGCTGGCTCAGAGATGCC ATAGCCCAGAGGGAGGTGGTGATGCCAAGGGGCTTCCTGTGAGGAGA
ESTD- ERBB2	93 C T ---	---	TCITTCAGGATCCGCATCTGCGCCTGGTTGGGCATCGCTCCGCTAGGTGTCAAGCGGCTCCACAGCTGG GGTGAGGGGGTGGTGGTCAAGTGC[C]/TGGGGGGCGGTGCAGACCCACCGGGGCTGGGAGGACTTCA CCCCGCCTCACTCCGTTTCTCGACGAGCTCCGTCATCGTGACT
ESTD- ETS2	43 A G ---	---	ACTCACAGTGCTTTTAAAGTAAATGGTCGAGAAAGAGGACCC[A/G]GAAAGCCGCTCCTGGCGCCTG GCAGTCCGTGGGACGGGATGTTCTGGCTGTTTGAGATTCTCAAAGGAGCGAGCATGTGCTGGACACA CACAGACTATTTTAGATTTTCTTTTGCCCTTTTGCAACAGGAACAGCAATGCAAAAACCTCTTTGAG AGGGTAGGAGGGTGGGAAGGAACAACCATGTCAATTCAGAAAGTTAGTTTG
ESTD-F9	111 A G ---	---	AGATCCTGATGATTTTTCCTATTTTCTAAATGTTTACAGTTTGAAAGTTTAGATTTATGCCCA TGCTCCATTTTGAGTTAATATTGTGTAAAGTATGATGTTTA[A/G]GTCAAACTTCATTTTTTTTCC ATAGGTATGTCCAATTTATCCAGCACAAATTTGTTAAACAAAAAAC
EST68787 5	144 A --- ---	---	CTTCCTATGGGATTTGACTTTATTTCTCCATTGCTTACCTTTTACAGGTGTTAATATAGTGAAAAG GAAGCTTGAGCTCATGACAAATTTGAAGCTGACAATTACACAAGAAGGAAATAAATTCACAGTCAA AGAATCAAGCACCTTTTGAACATTTGAAGTTGTTTTGAAGTTGGTGTCACCTTTTAATTACAACCTAG CAGACGGAACTGAACCTCAGGGTAAGAT
ESTD- GODH	200 C G ---	---	CGCAGACCGGTCAAGTGGGGTGGGAGTGTGGAGGAAGGAGGAACTGGGGGTTTAGGGACT TTCCGGGTGACTTTCCCGTTCTGTGCTTGCAGAGAAAGGGGGAGAACACAGAGCCAACTGGCTAA GTGAAGGGACCTCTGGTGCACCCGTGTGTTCTGCTGCCCTGTTTCAGCTGTCTGTCTGCCGCAGT[C/ G]GACTCTGTCCCGGAAATCCGAGAGCT
ESTD-GCK	88 A G ---	---	GTTTTATGCATGGCAGCTCTAATGACAGGATGGTCAGCCCTGCTGAGGCCACTCCTGTCACCATGAC AACCACAGGCCCTCTCAGGA[A/G]CACAGTAAGCCCTGGCAGGAGAAATCCCCACCCACACCTGGC TGGAGCAGGAAATGCCAGCGGGCCTGAGCCCCAGGGAAGCAGGCTAGGATGTGAGAGACACAGTC ACCTGCAGCCTAATTACTCAAAGCTGTCCCCAGGTACAG

EST34088 2	62 A T ---	---	GTGGGGGCAACAGTGGGAGAGAGGGGCCAGGGGTATAAAAGGGGGCCACAAAGAGACCGGCTC[A/T] AGGATCCCAAGGGCCCAACTCCCCGAACCACTCAGGGTCCTGTGGACAGCTCACCTAGCTGCAATGGCT ACAGGTAAG
ESTD- GNAT2	56 A G ---	---	GACCCCTGAGTACCTCCCTAGTGAGCAAGATGTGCTCCGATCCAGGGTCAAAACCAC[A/G]GGCATCA TTGAACCAAGTTTCCGTCAAAGACTTGAATTCAGGTAAGTGCATGGTTCCCTAGG
ESTD-HT2	154 G ---	---	GGGCTAAAAATTTCCGAGCAACTTTGCATAGACTGTTTATTTGACTTTGACAGGATTGCTAGAGATAGG CAGGGAGAGGAAGATGTGTACAGTTTGTACAGAGAGATAAAAGGATAAACCTGGGTTTCTGTGC TTTGCTTCTACATCCCTGGGAGTTAATAGCTGCAATTTTCAAAGAACGGTATACAGGGACAGCA AAGCGAGTCGTGAAGTTTCAAACAAGACACACCTT
ESTD-HT5	149 C ---	---	AACACAAAGCCCCAGCGAGAATTGAACTCGCGACCCCTGGTTTACAAGACCAGTGTCTAACCCCT GAGCTATGAGCCCTCGTCTGCTGTTGTTTCTTCCCTTCATCTTATAGATTGATGTTATGCTCCTA GCATTCCGGCTACCGAATAGGATGTTAGCTTGAGTAAATTCAGGATATTCCTCACAAAATGAAA ACATTTTCGTGCTGTAAATCCCTCGAAAAGGTTCT
EST37382 5	124 A G ---	---	CTGAGAAACAAATTGGCAAAATAAAGGAATTTGGCACTCCCCACCCCTCTTTCTCTTCTCCCTTGG CTTTGAGTCAAAATTGGCTGGACTTGAGTCCCTGAACCAGCAAGAGAAAAGAG[A/G]CCCCAGA AATCACAGGTGGGCACGTCGCGTCTACCGCCATCTCCCTTCTACGGGAATTTTACAGGGTAACT
ESTD- IGFBP1	43 C T ---	---	ACCCAGTGGAGCCCGCTCAITGCACGGTCTTGGCAGGAGTGC[C/T]CTGGGAGAAGGAAGATG TTCCAGGGCACATAGCTTAGTGGAGACTC
ESTD- IGHV4-6	120 C ---	---	TTTACTATTTCAATGGATACAGAAATTGTGGGAGTCACTATAATCCATATGAACAAAAATTCAGATTT CAGTGTAAAGTAATGTGCCTACATTGTGTGAGTGACGGGGCAGTGGTGGATCCGAGAGTGTGTGG TGACGGACATAATGATTCAGAAAGCAATATGGAAGATGAGTATCTATGGATACGAACTGAAAGT ATGTAATACTTCACAAAATACTAATAACGGAGTTGAATATAAAACCCA
ESTD-IL1A	110 A G ---	---	CAAGTAAGCACCCCAATAATGTTAGCTATTACTATCATTATTATTATTATTTATTTATTTTTTTT AGATGGAGTCTGGCTCTGTACCCAGGCTGGAGTGGC[A/G]CAATCTCGGCTCACTGCAAGCT CTGCCTCTGGTTTCATGCCATTCTCCTGCCCTCAGCCTCCGAGTCCGGAATACAGGCACCCGCC ACTGTCCCCGGCTAAITTTTGTATTTTAGTAGACGGAGTTACCGT
ESTD-IL1B	99 A G ---	---	CCACTTACAGATGGATAAATGGGTACAATGAAGGGCCAATAGCCCTCCCTGTCTGTATTGAGGGTGT GGGTCTCTACCTTGGGTGCTGTTCTCTGCCCTC[A/G]GGAGCTCTCTGTCAATTGCAGG
EST74082	134 A T ---	---	TCAGGGTGGCTGGACCCAGGCCCAAGCTCTGCAGCAGGAGGACGTGGCTGGCTCGTGAAGCATG TGGGGGTAGCCAGGGGGCCCAAGGCAGGGCACCTGGCCTTACGCTGCCCTCAGCCCTGCCTGTC[A/ T]CCAGATCACTGTCTTCTGCCATGGCCCTTGGATGGCCCTCCTGCCCTGCTGGCGCTGCTGGCC CTCTGGGGACCTGACCCAGCCGACGCTTTGTGAACCAACACCTGTGGC

EST45311 0	151 C T ---	---	---	GGCCTCCTCTCTCCAAATCTGTCCCTATAGTTTCTCTATTAAGTGAACATACATGCATTCITTTAGT GGATAGATGCACACAAACACACAGCCATTATGGGAAGGATCCACGTGTGTGGCCATATTGTAACA CATTTTCTGCAAAATC/TACCTCTTTTCATTTAACAGCCCTTATTCAATGGCCCTTTTCTCTTTTTCAGTA GTACATACACATCTGTGTCAATTTGTGAAT
EST65258 8	80 A G ---	---	---	TGCCCCATCAGCGCGCGAGACATGGCTTGCCACAGCTCTGAGGATGTCACCAATTAACCAGAAAT CCAGTTATTTCC/GJCCCTCAAATGACAGCCATGGCCGGCGGGTCTCTGGGGCTCGTCGGG GGACAGCTCCACTCTGACTGGACAGCTTTTGCATGGAGACTTGAGGAGGGGCTTGAGGTTGGT GAGGTAGGTGCGTGTTCCTGTGCAAGTCAGGACATCAGTCTGATTAA
EST38216 3	26 A T ---	---	---	ATGCAGGATGAAGGTGGACAGGGAGG/TJGAGGGCCAACTGTCTCCAGGGGCTGCAGATGTCG CTGGACTATGGGTTGTGACCCCACTGACCTCCATGAGCATCAGGG
EST62782 ESTD- KRT10b	149 G T ---	---	---	ATACTAGTACAAGTGGTAATTTTGTACATTACACTAAATATTAGCATTTGTTTAGCATTAACCTAA TTTTTCTCTCCTCCATGCAGACTGTTAGCTTTTACCTTAAATGCTTATTTTAAATGACAGTGAAG TTTTTTTCTCTC/G/TJAAGTGCCAGTATCCAGAGTTTGGTTTGAAGTGAATGCCTGTGAA AAAGAACTGAATACCTAAGATTCTGCTTGGGGTTTGGTGCATGCA
ESTD- KRT10b	183 C T ---	---	---	CCAAAGTTAAATAGTATTGGAGTTATCTGAGAAATTTTCCATGTCAGTGTACCTTTTGGCAATATT AAAGGAAGAAATGCATTTTAAAGTAACTGCTAAGTTTTCCTATTAAACCACCTATTACTTCTAAG AGAACTGTACATGACAAATATTGCCATTACATGAGATCAACTATGTAGTCTTTTAAATAGT CTCTGCCAGATACATCTCCCTATATAAGTTATAACCAGTATTGATA
ESTD- KRT10a	133 A G ---	---	---	CCAAAGTTAAATAGTATTGGAGTTATCTGAGAAATTTTCCATGTCAGTGTACCTTTTGGCAATATT AAAGGAAGAAATGCATTTTAAAGTAACTGCTAAGTTTTCCTATTAAACCACCTATTACTTCTA/A G/GAGAACTGTACATGACAAATATTGCCATTACATGAGATCAACTATGTAGTCTTTTAAATAGT TCTGCCAGATACATCTCCCTATATAAGTTATAACCAGTATTGATA
ESTD- KRT8b	231 C T ---	---	---	ACCTCACCCCTCCCTTAGCCGTGGGAAGCAGGAAATCTCTCCAAATCCATGAATACACATCGG ATTGGACACCTTGAGAGTCTTAACAGCAGGCGCTGACATGAGACCTCAGACAGAACTTTCTAGAGTT TGCTAGAGGTCAAGGGTCAAGACTAAAGAGGGGCCAGAAATGTTAAGTACAAAAGTGAGGCCCATAG GCTGCCATCTCTCCCGTCTCAGGTTTACCA/C/TJGTCAACATTGACACA
ESTD- KRT8a	21 C T ---	---	---	ACCTCACCCCTCCCTTAGCC/C/TJGTGGGAAGCAGGAAATCTCTCCAAATCCATGAATACACATC GGATTGGACACCTTGAGAGTCTTAACAGCAGGCGCTGACATGAGACCTCAGACAGAACTTTCTAGAG TTTGCTAGAGGTCAAGGGTCAAGACTAAAGAGGGGCCAGAAATGTTAAGTACAAAAGTGAGGCCCAT GGGTGCTATCTCTCCCGTCTCAGGTTTACCACGTCAACATTGACACA
EST75099 6	82 C T ---	---	---	CACTTGTGTGTCTAGATCTCCTCAGTGGCCGCTCTACTGGGTGACTCCAACTTCACTCCATCTCA AGCATCGATGTCAA/C/TJGGGGCAACCGGAAGACCATCTTGGAGGATGAAAAGAGGCTGGCCCAAC CCTTCTCCTTGGCCGCTCTTGGGTGTTGG

ESTD-LF79	142 A G ---	---	GGGTGATTTGAGGCTCAGTTAATATTTCAAATTTAAACCGTAGCAAACTGCATTGGTATTTAGA AAAAATAAAAAATTTCCAATATGATGCTGTGTATACCTGGCTCTGCCATGCAGCATCATAGCCTGT GGGAACCCAG/GGGAGGGCTCCCTTACCACCCAGA
EST35879 9	142 A C ---	---	GAGATCGGTGTGTGAGTTATTAGGCATGTTACCTGTGATTTCTCCCAATCTTGTGCGTTCCACCGATG GAATGCCGGCAAATCCTGACACGTGTGACCCAGGCTGTACCCAAATAGGTGAACATGGCTTCGAG AGAGTTG/A/CJACAGATTCCTGGAAGACAGCAGCGGGATGGGGCAGGAGAAGAGCTGCCTGGATGA A
ESTD-LMP2	35 C G ---	---	TACACACTTTCCTTACCCATTCACTGAAACGACTC/GJGCAAACTGGAGCCTTGTAGGAATGGAGT TGACCTTCCCCAAAAGCCACTATGATAAGCTATTGGTG
ESTD-LPL	113 C T ---	---	TGTCAGTGTCCCTAGGGGCACCTCACCACTCCAGCTTCTTCAGCTCTGGCCTGTCTGCTGCCTGCA AGGTTTTGCTTAATCTCAATTCATGTCTCTTCATCTTTTAG/C/JAGCTGTGGGTTTTTGTGTTG TTCTTCTGTTTTTGTCTTAGTATCTGACTACTTTTAAATATAAAAGAGATGTATCTAAACAAAATAG AGATTGTTATCAGAAAGTTCACAACATTTATTAATAATTTTTTACCTG
ESTD-MCC	45 C T ---	---	TTGTCAGGAGTGTCTGATGCTGCTCCCTCCCACTCTGCTCCCTAGC/C/JGAACTTCAGGACAAGCTGC AG
ESTD-METH	118 C T ---	---	CATCCATGTAGGAGAGCCTTAGTCAAGTGAATGCTAGGAAGCAGTAAACAGCATGCATCCCCGAA TCTCAGGAAGTCTGTCTTCCCAAGGGTTGGTCTAAGTTGCTGATTACC/C/JGGATTTTCTGACG ATCTTCAACTGCTAGAGCATCTGGTTCTGTTTAGCATGG
ESTD-NF1	25 A G ---	---	ATTATCCAGATGAATTTACAAAAC/TAGJACCAGATCCACAGACTGATATGGCTGGT
ESTD-NFKB1	107 A G ---	---	AACATGGACTTGATATTTGTACAAAAAAGTTTATTTTCTAAAAAAGAAAAAGAGAAA AAATTTAAAGGGGTACTTATATCCACACTGCACACTGCCT/JAGCCCCAAACGCTTATTGTGGT AGGATCAGCCCTCATTTTGTGCTTTTGTGAACCTTTTGTAGGGGACGAGAAAGATCATTTGAAATCT GAGAAACTTCTTTAAACCTCACCTTTGTGGGTTTTTGGAGAAGGTTATCA
ESTD-NPPA	45 A G ---	---	TGTCCTAGGCCCCAGCCCTGCTTGTCTCCCTGGCTGTATCTTC/JAGTACTGCAAGAGAACACA GACAT
ESTD-NPAS	202 C T ---	---	GTGTTTTCTTAATCTTTCCAGGAACACAGTACCATAATTTCTTTCTGCAGGCATATAGAAATTTGGT GGGTTTTCTTTATGTAGGGTGATATTGGATACTTTTGTGTTGATTATATATAGCAATTTGAGGG ACAAACCAGATAGGCAGAAATGGGCTTGAATAGTAGATGCTTATTAACCTTGGCAATAGCATTG/ C/JATTCCTCTGGTTTTTATAAAAAAT
ESTD-PAI1	100 A G ---	---	GCCACCACCCACCCACCCAGCACACCTCCAACTCAGCCAGACAAGGTTGTGACACAAGAGAGCCC TCAGGGGCACAGAGAGAGTCTGGACACGTGGGG/JAGJGTCAGCCGTGTATCATCGGAGGCGCCGGG CACATGGCAGGGATGAGGGAAGACCAAGATCCTCTGTGTGGGCCCAAGTCTCTAGACAGACAAAAC TAGACAATCACGTGGCTGGCT

ESTD-PAR	120	A	---	---	CTCTTCAGGAACCAACAGTCTTCTTACCAAACACGACTTATTGCTGTCCGAGAGGTACAAACCCGTAGA ACTTCTTCTTAAGTAACTAGTAAAGGAATCGAACTGGCTCTGAAGACATGGAGATAGTGCCT AATCGACTGGCTTTCATTAGCTCTGTGAGTGTCTTCTTCTTCTTCTGTTCTAGAACGTTTCTTAG GACTGGCAGTTTAAGCTTTCACITTAGCTTCTCTGTATACCCATGCC	
ESTD- Per/RDS	74	A	G	---	ACCTACAGACGTCGCTGGATGGTGTGCCAACCCCGAGGAATCTGAGAGCGAGAGAGGGCTGGCTG CTGGAGA/A/GAGCGTGCCGGAGACCTGGAAGGCT	
EST68308	5	29	C	T	---	GGAAAGAGATTTAAGAAAGCTTGATTGGGA/C/TJAATCTGGTCTTTGAGTGTGGAAGATTTCATGTC TCTGCTGAGTTACAACAGAAATCCTTTAGTACAGCGAGTAATAGATATATTCGACACAGATGGGAAT GGAGAAGTAGACTTTAAGGTAAGAAAGTAGTATTTTTTA
EST54045	6	39	A	G	---	GGAAATTTAAAAATATTTAAAAATACCTCCATTTTGCTT/A/GJTCTTTTAGTGAAGATGATACCTGC AAAAGACATGGCTAAAGTTATGATTTGCATGTTGGCAATTTGTTCTTACAAATCGGATGGGAAA TCTGTTAAGTAAGTACTGTTTGCCTTGGAAATGGATTTTAAATGTTGACTTTATCAT
ESTD- PXMP1	88	A	G	---	ATGAAACATGGTCTTTAATTTATGATATGTTTGTATAGCTATCTTAAAGGGCTCTCTTTTTTTTA ATGCAGAAAGAGGGGAAAAA/A/GJGAGCGAGCTGGTGGACAAGGTGTTTTCTCAAGGCTCATAC AGATTCTGAAAATCATGGTCCCTAGAACATTTTGTAAAGAGGTAAGTCTTATGAAATTTATAATCTT	
ESTD-RDS	127	A	---	---	CCCGAGGAATCTGAGAGCGAGAGCGAGGGCTGGCTGCTGGAGAAAGAGCGTGCCGGAGACCTTGAAGG CCTTCTGGAGAGTGTGAAGAGCTGGGCAAGGGCAACCAAGGTGGAAGCCGAGGGCGCAGACGCAGG CCAGGCCACAGAGGCTGGCTGAGGGCCCTGGGGCCCTCCCTCCGAACTGAGAAATAGTGCAC CCAAGAAACGTGGATCTCCCCCTCATCCAACTCCGAAAGTCTGAA	
ESTD- s14544	94	G	T	---	TTGGGAAGTTAGAGCCCTATATTAATACGGAATTACTAAGGCAGGACACAGAGGCTTAATTGAAAA TATCCCAAAGTTGAAATGCTCAGTTG/C/TJCTGTGTGGTTAGATGCAGGATTTATATGATCCGTTA ACCTCT	
EST52908	0	45	A	C	---	ATCACAGGTCTCTGGTCTCTGGCCATCATTTCTGGGAGAGATGG/A/CJTGGTGCTGCAAGCCCTT TGGCAATGTGAGATTGATG
EST19590	55	C	T	---	AGGAGAAGCTGAGGAGGGGAAGAGAGACAAAGAAATGACATTGATGAGTGAAGATGT/C/TJGGCTCAG GATGCCGGAATAATGAC	
EST76136	39	C	T	---	TGAAGCTTCTGCCAGCTTGCAATTGTTTCTAGGAGAACCT/C/TJGGTCTATACCTTTATCTATAGCCTT CCCTAGGTCTT	
ESTD- SPTB	176	C	T	---	TGAAACACCTGTGGTCCGGAGCCAGGTGTGTTTCTCTGGAGCCTGAGGAGTTTGTGTGTGTGTG CAGTCCCCCGCCACCTGCTGGTTGAGCCTGGACATACACCTTCACTCCTTTGGCCCGGAGAGAC ATTTACCCACCTGGCCATGTCCCTGGCCTGTTGTGCACA/C/TJCTCTGTGAAGACCCCAACCCCTGC CTCCCCACCCCAAGCCAGTTTCTTAGCAAGGGCAGGAC	



ESTD-TAT	224 C	---	---	AAATGGTCAGGACCCTGATCCACAAGAGTGGTACCATTTCATCAGGGCCATCAGTTTCATTCAGCTC CCATGACTGGGATGCTAAGTCAGCAACTGAGTTTCATTCATCTTAAATGACTTGTGGACAGGATCA ATTTCCCTCTCACCTAGAACGTTTGTACAACTTTTCTTCCAGTATGGATGGGATTATGATGGGGGG GAGAAAGCAAAATTTAAATAGGACCCCATGAGACACATCA
ESTD- THRB	125 A	C	---	TGCGGCCTTCTCCGGCAGGGTAGACTTCTTACTTGGCTGTTGATTTCCAAGAGAAAGAGTCCCAAG CACAGAAACAGAAAGTTGCAGATCCCATGAGGCCAGTCTCAAAATCACACAGGATC[A/C]TTCAT CCAACTGGATTGGCCCAACAAGTCTGAGTGCAGCCAGGACTCAACGGTCCCTGTAGATGGG TAGTGAAGTTTTCATCTCTGTCAGCTTCTGGATTCTTGTCCACCCGCAACAAGAGTCTATGC CAAGGAGAAAAAGCTGGTTCATGGGCAAAATCAATGCTCTCCAGATTTCAG[G/T]ATCCCCAA GCAGTGCATCCATTGACACATAATAATGCATCCAGACAAGAGGTCATAAATATTGATGTCGTTAAA CATGGGTGTGATCCATTTTCATTTGGCCATAGGTCCCTATGGGGATGACA
ESTD-TYR	122 G	T	---	AGTAGTGATGAAGCTAACAGCCTCTCCTCACTGATCAGTATCAATGCTATGCTGAAGAATATGAA AAACTCCAGAAATCCTAATCAGTCTGTGGTCTAACAAATGCCCTACTCTCTTATGCAATTAGTATCACA AACCACCTGTTGAATATAATAGATTGAGTTATTAACTGTTTCTTTCACCTTATTACCTTCTTCT AATACAAGCATATGTTAG[A/C]ATTAAAGTTCTAGGCATACTT
ESTD- TYRP1	222 A	C	---	AGTAGTGATGAAGCTAACAGCCTCTCCTCACTGATCAGTATCAATGCTATGCTGAAGAATATGAA AAACTCCAGAAATCCTAATCAGTCTGTGGTCTAACAAATGCCCTACTCTCTTATGCAATTAGTATCACA AACCACCTGTTGAATATAATAGATTGAGTTATTAACTGTTTCTTTCACCTTATTACCTTCTTCT AATACAAGCATATGTTAG[A/C]ATTAAAGTTCTAGGCATACTT
ESTD- TYRP1	222 A	C	---	TTCCCAAGGCCTCAATACAAGTCTTTTCTTGGGATTACAACATCAGGGTCTGTTGTTTCTATTACA GGACACATGGATGCTGGAATCACCAGAGCCCAAGACACAAGGTACAGAGACAGGAACACCCAGTG ACTCTGAGATGTCA[C/T]CAGACTGAGAACCACCGTTATATGTTACTGGTATCGACAAGACCCCGGGC ATGGGCTGAGGCTGATCCATTACTCATAT
ESTD- VB12	148 C	T	---	TTCCCAAGGCCTCAATACAAGTCTTTTCTTGGGATTACAACATCAGGGTCTGTTGTTTCTATTACA GGACACATGGATGCTGGAATCACCAGAGCCCAAGACACAAGGTACAGAGACAGGAACACCCAGTG ACTCTGAGATGTCA[C/T]CAGACTGAGAACCACCGTTATATGTTACTGGTATCGACAAGACCCCGGGC ATGGGCTGAGGCTGATCCATTACTCATAT
ESTD- VB12b	148 C	T	---	TTCCCAAGGCCTCAATACAAGTCTTTTCTTGGGATTACAACATCAGGGTCTGTTGTTTCTATTACA GGACAC[A/G]TGGATGCTGGAATCACCAGAGCCCAAGACACAAGGTACAGAGACAGGAACACCA GTGACTGTGAGATGTCACCAGACTGAGAACCACCGTTATATGTTACTGGTATCGACAAGACCCCGGGC ATGGGCTGAGGCTGATCCATTACTCATAT
ESTD- VB12a	74 A	G	---	ATGGGCTGAGGCTGATCCATTACTCATAT

EST58607 0	105 A G ---	---	CTCTGGATGGGTTACAGGTGGCAGGCACAAAGCCAGTCCATCCTGTAGTCATCATAGTTGTGGCTCC CAAGTTGCTCTCCTCACTGGAGAAACAAGGACAGCCACACAGTGGCGGGGATGGCCGGGAGTTT TGGTTGGCGCCACGGCTGTGGCTCGTTGTGAACGGTAGCCTTTGCGGTTGGATGCCTAAACCTTTGT TTCTTGCCCAAGGAGGGGGGTGCCATGCCCTGAGATGTAGATGCGGCC
ESTD-VWF	36 G ---	---	AGGTAGGAAAGCAAGAGTTGATTAGTGAAGGAGAGAATGGACCTACCTTCCACACTGTCTTTGG TCCCCTAGAGTCTG
EST71770 6	189 C G ---	---	AGCACCCCTCAGCTCAAGCCTCAGCACCCAGATGCTGTCTATAAGGATGACGTGCTGTTTACAA CATCTCCTCCATGAAGAGCACAGAGATTATTTATCCTGAAGTCCGGATCTATGACTCAGGGACAT ATAAATGTACTGTGATTGTGAACAACAAGAGAAACCACCTGCAGAGTACCAG[C/G]TGTGGTGGA AGGAGTGCCCAAGTCCAGGGTGACACTGGACAAGAAAGAGGCCATCCAAGG
ESTD- TNFα	152 A G ---	---	TTCTGCATCCTGTCTGGAAGTTAGAAGGAAACAGACCACAGACCTGTGTCCTCCAAAGAAATGGAGG CAATAGGTTTGGGGGCATGAGGACGGGTTTCAAGCTCCAGGGTCTACACACAAATCAGTCAGTG GCCCAGAAGACCCCTC[G/G]AATCGAGCAGGAGGATGGGAGTGTGAGGGGTATCCTTTGATG CTTGTGTCCCAACTTCCAAATCCCGCCCGCGGATGG
ESTD- TNFα	88 A ---	---	TTCTGCATCCTGTCTGGAAGTTAGAAGGAAACAGACCACAGACCTGTGTCCTCCAAAGAAATGGAGG CAATAGGTTTGGGGGCATGAGGACGGGTTTCAAGCTCCAGGGTCTACACACAAATCAGTCAGTG GCCCAGAAGACCCCTCAGAAATCGAGCAGGAGGATGGGAGTGTGAGGGGTATCCTTTGATGCTT GTGTGTCCTCAACTTCCAAATCCCGCCCGCGGATGG
EST52418 6	113 A G ---	---	CAAAATACAGGGTCAACTGCTATGATGTGTTGGAGCCCACTCACCTTTGGTGGCTACAAGATGTG GGGAGTGGCCGGGAGTTGGCGAGTACGGGCTGCAGGCATACACTA/GAAGTGAAAACTGTGAGTG TGG
EST13586 3	89 A G ---	---	CCCACTCTATTGCCCAAGCCCAAGGACAGAGCTGATCCTTGAACCTTAAAGTTCCACATTGCCAGGA CCAGTGAGCAGCAACAGGGCC[G/G]GGCTGGCTTATCAGCCTCCAGCCAGACCCCTGGCTGCAGA CATAAATAGGCCCTGCAAGAGCTGGCTGCTTAGAGACTGCGAGAAGGAGGTGCGTCTGCTGCTGCC CCGGTCACTC
EST51976 7	123 A T ---	---	AGGCAGAACTGGGCCCCCATGGGGGACGTGGGAAGGCCACTTGAGCTTCTGGAGAAGGACCTGA GGGACAAGGTCAACTCTCTTTCAGACCTTCAAGGAGAAAGAGAGCCAGGACAAAGATJCTCTCTC CCTCCCTGAGCTGGAGCAACAGCAGGAACAGCAGCAGGAGCAGCAGGAGGAGCAGGAGGAGGAGTGCAGATGCTG GCCCTTTGGAGAGCTGAGCTGCCCTGGTGC
EST11458 6	140 A G ---	---	CCACTTTGGTAGTGCCAGTGTGACTCATCCACAATGATTCTCCAGTGTCTATCTTGTCTCGAGTTTT CTCTGCCATGTTGCTATTGCAGGACGGACCTGTCCCAAGCCAGATGATTTACCATTTTCCACAGTGT CCCAGTTAAAAACATTCTATGAGCCAGGAGAGATACGTATTCCTGCAAGCCCGGGCTATGIG TCCCGAGGAGGGATGAGAAAGTTTATCTGCCCTCTCACAGGACTGTGGCC

ESTD- AT3aa	60 C T ---	---	AGACCTCAGTTTCCTCTCTGTAAAGGGAAGTTGTTCTTGATCTCCATGGGCCAGC[C/T]AGCA CTGGTCCCTGTGAGTCTGTATCAGGTAGAGGAGATGGACCAGGTGAGAGGAATTTGAAAGGGCA TTGGAATTCAGAGCAAGAGACAGATATTAGAGCTGGGAAATGTGG
EST39852 8	106 C G ---	---	CGGCTTCCTCCAGGTATTGTCAGAAGGCCGAGATGACCTCTATGTCTCAGATGCATTCCATAAG GCATTTCTTGAGGTGAGTACACCTTCCCCACTCTCTT[C/G]GTACAGAAAGGAGATGCATGAACA GCAGGAACACGTGGAAAGGCCCTGTTCCAGTGTAAAGGCATGCAAAAGGCCCTCCACAGGCTGCTAT AATACAGCCCT
EST62448 0	112 A G ---	---	ACCTGGTGTGCTGGTGTGAGTGAACCTGGTCTCTTGGCATTCGCCGCCCTCCTGGGGCCCCGTGG TCCTCCTGGTGTGGGTAGTCTCTGGAGTCAACGGTCTCTT[A/G]GTGAAGCTGGTCTGATGGCA ACCTGGGAACGATGTGTCCTCCAGGTGCGGATGGTCAACCCGGACACAAGGAGAGCGCGTTACCC TGGCAATAT
EST36027 2	120 A C ---	---	AGTGACTTCCAAGGAAATGGCTACCCAACTTGCCTTCATGCGCTGCTGGCCAACTATGCCTCTCAGA ACATCACCTACCCTACCAAGAACAGCATTCATACATGGATGAGGAGACTGG[A/C]AACCTGAAAA AGGCTGTCAATCTACAGGCTCTAATGATGTTGAATGTTGCTGAGGGCAACAGCAGGTTCACTTAC ACTGTTCTTGATAGTGGTCTCTAAAAAGACAAATGAATGGGAAAGACAA
ESTD- COL2A1cc	112 A G ---	---	AGAAATATATAGTCTCAAACTGGCCATCTCCATTTTCAGTCCAAAAGTTATACAGCTAGACAACA GTGGTACATACGTTGCTATTATGCTCTCTTCTCTGCTCACTT[C/G]GGGTGTTCAAGGTGAAAA GGTGAACAGGGTCCCGTGGTCTCCAGGCTTCCAGGTAAGTCAACTCAAGCATATACAATACTGCCT TTGGTCAGCCTATTGAGCTGTAATCACCATACCGTACCT
ESTD- COL2A1dd	97 C T ---	---	TGAGAGAACACCTAGTCTCCATCCTCTCTCTCAATGGCAAGAAAGTTAAGTGACCTATCTAGGGC AATAGACTGAGTTTGTCTGGGACCTGGAACA[C/T]GGACTTCTTCTACTGCAGCAGACAAGACTTA CCCAAGAGAGATTAAATGGCAAGATATACAATAACAATTTTATTGACCAAACTATCATGTGAACA GCATT
ESTD- CPT2	150 A G ---	---	GCCGCAATGCCCGGAGTTTCTCCAATGTGTGGAGAAGGCCCTTAGAAGACATGTTTGATGCCTTAGAA GGCAATCCATCAAAAGTTAACTTCTGGGCAGATGAAAAGCTACCATCCTCCTCATCATGAAAAC TGGGAGGCCGGCAT[A/G]GTGCTCATGCCTGTAATCCAGCATTTTGAGAGGCTGAGGGCGGTGGAT CACTTGAGGTGAGGAGTTTGAGACCAACCTGGCCAACAT
EST12274 0	135 A G ---	---	CCCCAGTTGACAGCCACTGCTCTAGACTAAGTTTCTGCTTCCAATAGAGCCTTACCAAAGTGAT TACATAAAGAAGTCAAGTGGTTTACTCTCTATGACCAAAATATCTTCCCTCCTTAGGATGAGGTG[ A/G]TAGTAAATGACCGATGGGTCAGAACTGTTCTGTCACCATGGAGGATATACTAAGTGTGAAGA TAAATTCAGCCACAGAGCTTGCCAGATC
EST76807	91 G -- ---	---	ATGCTAAGGGGATCGGACATGAAAGGACCCCTGTGAGCCGATTGTCCTATCTCCAGCGGCCCTGTCTC CAGCTCACTCATCAATGGGCCAGTCAGGCCAGGCACTGGGCTCGGAGGAGTCACTCACTGCCCCCT GCTGCCATGTGGACTGGTGCAAGTTGAGGACTTCTTG

ESTD-SSA1	111 C T ---	---	TTACATTTGTGGATTGTTCTTTTGTGTCAGCACCTTTTCAACATGATGTATCCCATTTGTCCAAGTTTGTCTTGGCTGCCCTGTGCTTGTGGGATATTTGAAAGAGATC/TJTITGCCAGTCCAATGTCTAGAGAGTTTCCCAATGTTTCTTGTAAATAGTTTCATAGTTTGAGGCTTAGATTTAAGTCTTTAATCCATTGATTTGATTCTGTGA
ESTD-FYR1	109 A G ---	---	CTTCGTACGGGAGGTACGTCTCCGCTCTTTTCATGGACATATGGATGAGTGTGACCATTTCCCCTGCTGACAGTATGACACGGCAGACTTGTCTACTATGAG/A/GJGGGAGCTGTGTGCACTCATGCCCGCTCCCTCTGGAGGCTGGAGCCACTGAGAATCAGCTGGAGTGGAGCCACCTGCGCTGGGGCCAGCCACTCCGAGTCCGGCATGTCACACCGGGCAGTACCTAGCGCTCACCGAGG
ESTD-WT1	70 A G ---	---	AAGACCTACGTGAATGTTACATGTGCTTAAAGCCTCCCTTCCCTCTTACTCTCTGCTGCGGATGTGCG/A/GJCGTGTGCTGGAGTAGCCCCGACTCTTGTACGGTGGCATCTGAGACCAGTGAGAAACGCCCTTCATGTGTGCTTACCCAGGCTGCAA
ESTD-F2 EST44438 7	100 C --- 62 C T ---	---	GATAAGTACACTGAGGCCCCCAGGAGGTTATTGCCTAGTAGCCCCAACTGTGCATGCACGCTTAACCTCTGCACCAATGGCTCCAAAGCCCCGTAGGGAACTGGGGGATCTAGGGGATGGGTGAGGAATGGCCCCAGCCAGTCCCGCGGTGCTGGTCCCAACAGAGAGGCCGTGGAGGAGGAGACAGAGGATGGGGTGGATGAG
ESTD-PBDA	103 A G ---	---	GCAGCCAGGAGCCGCTGCACCATGCCCGCATAGATGCGGACCTCAAGCTCGACTTCAAGGA/C/TJGTCTGTCCGACCTAAGCGGAGCAGCCTCAAGAGCCGAGCGAGTGGG
EST12839 3	122 A G ---	---	CCTTCTCATGCCCCAGATGGAATTCAGTCCCTTCAGGATCTGCCTAACCTGTGACAGTCTAAAGAGTCTGAGCCGTGGCTGGGAAGGCGAGGACTAATCCAA/A/GJCTCTACCCGAGCTTGTCTGCGCATACAGACGGACAGTGTGTGGCAACATTGAAAGCCTCGTACC
ESTD-CTLA-4	48 A G ---	---	TGCAAAACACACAAAATCTTCTCCAGATGCCCTATGGCTGTGGAGAGCAGAATATGGTCTCTTTGCTCCTAACATCTATGTACTGGATTATCTAAATGAACACACAGCAGCTTACTCCAGAG/A/GJTCAGTCCAAGGCCATTGGCTATCTCAACACTGGTGAGTGATTACTTGAGTAAGGGAACCTTGAATGTTATTCAACTGGATTCCAGTAGGTTTCAGTTACTTATGAATATTATGATACCTTAGCTTAG
ESTD-ACE	96 C T ---	---	ATGGCTTGCCCTTGATTTCAGCGGCACAAAGGCTCAGCTGAACCTGGCT/A/GJCCAGGACCTGGCCCTGCACCTCCTGTTTTTCTTCTCTTCATCCCTGTCTTCTGCAAGCAATGCACGTGGCCAGCCTGCTGTGGTACTGGCCAGCAGCCGAGGCATCGCCAGCTTTGTGTGTGATGTCATCTCCAGGCAAGCCAC
EST54419 8	88 A G ---	---	GATCAAGCAGTGCACACGGGTACAGATGGACCAAGCTTCCACAGTGCACCATGAGATGGGCCATATACAGTACTACCTGCAGTACAAGGATCTGCC/C/TJGTCTCCCTGCGTGGGGGGCCAAACCCCGGCTTCCAAGGCCATTGGGACGTGCTGGCGCTCTCGGTCTCCACTCCTGAACATCTGCACAAAATCGGCCTGCCTTCTGCCTAATTTGAATGATATTGTGCTGTGGGACCTGAGCACTTTTTATGGCACAAATGATCACTATTTTCTTGACCCCTACTTAC/A/GJATCCTGGGAGATGATTTGGGTTTAGCGGTGCGTATGTGTCTATCTATAGTCCCAAGTGAA

ESTD-PS-1	99 A G ---	---	GGGGAGTAAACTGGATTGGAGATTTCATTTCTACAGTGTCTGGTTGGTAAAGCCTCAGCAACA GCCAGTGGAGACTGGAACACCAACCATAGCCTTGAJTTCGTAGCCATATTAATTTGGTTTGTGCTTAC ATTATTACTCCTTGCCATTTTCAAGAAAGCATTGCCAGCTCTTCCAATCTCCATCACCCTTTGGGCTTGT TTTCTACTTTGCCACAGATTATCTTGTA
ESTD- B3AR	104 C T ---	---	GGCTGCCAGGGTTCCGTGGAGGGGGCCCTAGCCGGGGCCCTGCTGGCGCTGGCGGTCTGGCCACC GTGGGAGGCAACCTGCTGGTGCATCGTGGCCATCGCC[C]/TGGACTCCGAGACTCCAGACCATGACCAA CGTGTCTGACTTCGTGGCGCGACCGACCTGGTGATGGACTCCTGGTGGTGGCGCGCGGGGCCA CCTGGGCG
WI-567b	48 A G ---	---	TCTCACACTGACCCCTTACCTTCATCCTCACCTCTGCTGCCTTGGTT[C]/GJAGCCCTCATCTCTTTTA CAGGATCCGCCACAGCATCCCAACTGATCTGGCCTTAGGCTCTTCTCCAAATCCATCTTCAAAAG GCTGCCACTGTGATCTTCCAAAGGTGATCTGATGCTACCATCTGCTTCAAGCC
WI-801c	58 G T ---	---	ATGGAACATTCTTCCATAATGAATGAGGTTCGAATCCATTACACATCCCCCTTCT[G]/JAGATGG TATTGGAGAAGTAGACAGAGAAGAAATTAAGTAGGCAATGCATGTTGCAGGGGTGGGGCTGTGC ATCTGTGATGTTAGTTACATGGGCACATATACGCTCATGTTTGTCTCAGCCCCACCAGAGAGTTAA CATTTCTGCCACCCCTC
WI-801b	58 G T ---	---	ATGGAACATTTCTCCATAATGAATGAGGTTCGAATCCATTACACATCCCCCTTCT[G]/JAGATGG TATTGGAGAAGTAGACAGAGAAGAAATTAAGTAGGCAATGCATGTTGCAGGGGTGGGGCTGTGC ATCTGTGATGTTAGTTACATGGGCACATATACGCTCATGTTTGTCTCAGCCCCACCAGAGAGTTAA CATTTCTGCCACCCCTC
WI-1099b	76 A G ---	---	GAAATTCACCTATACAAGAACTATTTCTCTAATTATTACATTAGTCTCATTATTCTGAAATATTAT TTTTTACA/JGJTACCCCTTGATTATTTTGTGATTCATTTGTACGAGAGATTACAATATCAGTAACGC TGTTCAATTGATAGTGTATCACAAATGTCTAAAATACITTTGGGTCAACATCAAAATTAGAAAGAAA CTTACAAAAGTTTATTGCTTTATGTTTA
WI-2529	71 C T ---	---	AGGAAATGGCTGATACTCCTGGTGGCTTCATTATAGTAAAGGAGATGTAATTGCTTGATGAGCCTCT CAA[C]/TJCTTAACTGCTGCCCTTCACTCAGTCAGTGAACATTTAATGAAGTCTACACAAATTAATTAGTGT AAGTTGTAATGCTGAATAAGCTTGAATAAAGTGAAGAGGTTAAAGAGGAGACAACTGTGCTTT TTAAGAAATAGAAGAGTCACTTTCATTAGAAATGGCTTTGGGGATGACAAGTA
WI-10088	205 C G ---	---	TAAGGGCTGTCTTCCCCCAGAGGCCCCACGGGACAGAGAAAGCATCTTGATACCCAGGGCCACAAA TGAGCAATCCATAGATACATATAAGAGAGACCTGTACCCCTATGAGGTAACTTGAGGATGAAGGA GTGAGTCATATTGGGTGGCAATTAAATGACCCAGCCTCTCTCTCAAGAGAGACTTTTACATTTAGAC AGG[C]/GJAGCAGAAGCAGCAAGGAGAGAAAGGAAGT

WI-2625	98 G A ---	---	---	GGGCAGTCTGGCTGTAGTGGTAGACAGCACTGAAGGATGGAGGAAGAGAGAAACAGGCAGAA GCACTGTGGTAGTTAACAAAGGCTTATTTAGGA[G/A]CAAAATGATGATACTCCCTGAGGACTCGCAG AAATTACAGCAGTGGACAGGGTTATCTGTGGTGAATTCAGTTATCCACTTGCAGGAGGAAAGCCA GCCAGCAAAG
WI-2924	54 G A TAGG	TGACCTTCCTA GCTTCTCTTA	GCCTAAGTGT AATCACAGGG	TCTGTGTGCATATTTCCCTCTTTGACTCTGACCTTCCTAGTCTTCTCTTATAGG[G/A]ACCCCTGTGATT ACACTTAGGGCTACCTGGATTATTTAGAACAATC
WI-2939	72 G T GTGCCITT	GGCTTGTCTCA	CTTGTGAGGG AAGGTCTTG	CCATTGTTAGGTTGGTGGGTGCACCTGTGCATTCCTCGCACTCAACAAGTGGCTGTCTCAGTGC CTTT[G/T]CAAGACCTTCCCTCAACAAGAAATGTCTTTCCATGCTCCCGTGTCTTTTGAAAATTCGACT TTATCCTGAAAAACTCAGCTGCAGTGTATCTCCGGTATAAGCCACTCCTG
WI-3203	99 G A AGACGAG	GGTATGCCGC	TCAAGTATTGC CTTGTGTGG	CTTGCTACCATGCAATTCACAGCATACAACCCCTCAGTGAATGCCGTAACCCCATTTATAAAACAT CTTGCCATCGAAGGGTTATGCCGCGACACGAG[G/A]CCACACAAGGCAATACTTGAAGTGACTTGGGA GAATAAGATTTGGATGGATGAAGCAGAGAAAGGAGATGCTAAAAAGTGA
WI-3473	101 A G GCCCTAGGGA	AAGCATTTTA	CCTGATGTCA CAACATTTCT	GGAAAAAGAAACCTGAAGGATGAGTAGAAGTTAATTTGGGAGATAGTTGGTGATAGGCCCTGTTTGGGA GATTGCAGAGAAGGAAGCATTTTAGCCCTAGGGA[G/T]AGAAAAATGTTGGTGACATCAGGGCT ACACACTTTTCTGTATGCTCTTCATCAAA[G/T]GCAGGGCTCATTTCTGCACATGGTGATATTTAAG CAGGAGAGCATTTGCTGGCTCCCC
WI-1796b	29 A G ---	---	---	ACACACTTTTCTGTATGCTCTTCATCAAA[G/T]GCAGGGCTCATTTCTGCACATGGTGATATTTAAG CAGGAGAGCATTTGCTGGCTCCCC
WI-1796	29 A G ---	---	---	AGTCGTCCATCTTCAGGGTCTAACTCTGGATCTGGCCTGCAGAGTAGGAAAGAAAGATGGGGTGAGT AGTCACATTAGGTATTTTCCAAATAA[C/T]AAATGCCCTCTGAAAAATATCTCTCCCATGTCCCTGTCT TAAATATAACATTTTCCC
WI-4360	93 C T AAATAA	GATGTCACATT AGGTATTTCC	GAGAGATATT TTCAGAGGCAT TTT	GCTGAGCTTTGTGGCAGAGCCAGGGACAATTCAGCTGCCGGATTTTAAATAGATTCTGCAGCACTGCAA CAGGAACCAAAAATCAGTC[C/T]GGGTAACCTGAGAGTGGTTTTCACACCCAAA
WI-1959b	87 C T ---	---	---	GTTGTGCCCTGTAGCAGACACAGAAGGCA[G/G]AGAGGAAAAAGCCCTTTTGGTCCAGGGGCTTACAC TGAATCCCTCAACAATGCAAGATGAGCTAATGGTCTTAGAGGTATAATCTAAGTGTGAGAAAAACA AAGGTATAGGGTTTG
WI-1973b	28 A G ---	---	---	CTTGAGTATGCGTGGATTTGGTATACACAGAAATGGGAGAGCTGGAACATAATCCCCCATATACCA AGGGACAAATGTATCTGTTTCTACAATTATACAGTAGGAGACATTTATGTTCCATGACAATGGTAAT TTTTAA[C/T]GACAGTTTTTAATTGAGTGAAATACCATAAAAAATAATAATAGTAGCAGCTAATATT TACTGAGCTGTTACTAGGTGCCTATAAATAGC
WI-1980b	140 C T ---	---	---	

WI-2015b	190 A G ---	---	TGTCAGATAGTCGGTCTCTACCTAGGTGCGAGTAGCATGCTAGGAGCTATTAAAGTACACAATTATGCT ATATATTTATACAATATACAATTACTTGCAGATAGCATGACCATGCTAGTGAACCCCAAGACTAT GTGTGAATCGTCTATTAGGGTTTGTCTATAAAGTCTACATGCTGCTTTTCCAACTTGA/GCATATACTT CTAATACCATAGAG
WI-754b	49 C T ---	---	GAAGGCACAGGGAGAGATGGCTGTCTATCTACAGCCAGGGAGAGAGAGC/CTACATTTATTGGTAA TCCTATAAAGTGCATCTTTAAATTTGTATTACTTTAGA
WI-754	22 T C ---	---	GAAGGCACAGGGAGAGATGGCTGTCTATCTACAGCCAGGGAGAGAGAGCCACATTTATTGGTAA TCCTATAAAGTGCATCTTTAAATTTGTATTACTTTAGA
WIR-1b	56 A G ---	---	AGGCAATCAGACCTACAGAGAGGAAACCCCAATAAAAACTCTGATGATCGTACATCC[A/G]TGCCTG GAGGTGATGCTCTCTGAGGACATGGGAGCTTCATGTTGGAGCCCTCCCTG
WIR-1	56 A G ---	---	AGGCAATCAGACCTACAGAGAGGAAACCCCAATAAAAACTCTGATGATCGTACATCC[A/G]TGCCTG GAGGTGATGCTCTCTGAGGACATGGGAGCTTCATGTTGGAGCCCTCCCTG
WIR-3b	72 A G ---	---	TAATTTAAATGGGCCAATAACACAGTACTTATCTCACAGCATTTCTCTAAAGGCTAAATAAGAA GAATGA/GTCTAAAGTTATTAGCTCAGAGCCTCACACATTTCTCAGTACTGATAAACAATAAGCA AAGCTGGGTGCTGAGATAAGA
WIR-3a	69 A T ---	---	TAATTTAAATGGGCCAATAACACAGTACTTATCTCACAGCATTTCTCTAAAGGCTAAATAAGAA GAATGA/GTCTAAAGTTATTAGCTCAGAGCCTCACACATTTCTCAGTACTGATAAACAATAAGCA AAGCTGGGTGCTGAGATAAGA
WIR-4	47 T ---	---	GAGCCTTTCTAAAAATAAGGATTGTGACTAGCAACCTCCTGTACAGATTCCTGCTCACACATGTGCA AGGCAGCAGCAAAATTTGCCAGCTGCC
WIR-5g	209 C ---	---	CGGGACAGAGAGACAGAGAGAGAGTCTGCGAGCATTCACAAGAGGTTATTAGGACTCAGTTCTGCTG TGAGNCATCCACACTGGAGGATGAGAACACCCAGCTGCAGCCAGAGCCTGTGGTCCCAGTGTAGG TTTTGAAGGGAAGGCAAGGGTTAAAAAAGACACAGAGAGAGTCGGTGGCTCTATGGAAACACAGG TTTTACGTCCAG
WIR-5f	196 C ---	---	CGGGACAGAGAGACAGAGAGAGTCTGCGAGCATTCACAAGAGGTTATTAGGACTCAGTTCTGCTG TGAGNCATCCACACTGGAGGATGAGAACACCCAGCTGCAGCCAGAGCCTGTGGTCCCAGTGTAGG TTTTGAAGGGAAGGCAAGGGTTAAAAAAGACACAGAGAGAGTCGGTGGCTCTATGGAAACACAGG TTTTACGTCCAG
WIR-5e	194 C ---	---	CGGGACAGAGAGACAGAGAGAGTCTGCGAGCATTCACAAGAGGTTATTAGGACTCAGTTCTGCTG TGAGNCATCCACACTGGAGGATGAGAACACCCAGCTGCAGCCAGAGCCTGTGGTCCCAGTGTAGG TTTTGAAGGGAAGGCAAGGGTTAAAAAAGACACAGAGAGAGTCGGTGGCTCTATGGAAACACAGG TTTTACGTCCAG

WIR-5d	191 A ---	---	CGGGACAGAGACAGAGAGAGAGTTCTGCAGCATTCAAGAGGTTATTAGGACTCAGTTCTGCTG TGAGNCATCCACACTGGAGGATGAGAACACCCAGCTGCAGCCAGAGCCTGTGGTCCCACTGTTAGG TTTTGAAGGGAAGGCAAGGTTAAAAAGACACAGAGAGAGTCGGTGGCTCTATGGAAACACAGG TTTTACGTCACAG
WIR-5c	177 C ---	---	CGGGACAGAGACAGAGAGAGAGTTCTGCAGCATTCAAGAGGTTATTAGGACTCAGTTCTGCTG TGAGNCATCCACACTGGAGGATGAGAACACCCAGCTGCAGCCAGAGCCTGTGGTCCCACTGTTAGG TTTTGAAGGGAAGGCAAGGTTAAAAAGACACAGAGAGAGTCGGTGGCTCTATGGAAACACAGG TTTTACGTCACAG
WIR-5b	159 A ---	---	CGGGACAGAGACAGAGAGAGAGTTCTGCAGCATTCAAGAGGTTATTAGGACTCAGTTCTGCTG CTGTGAGNCATCCACACTGGAGGATGAGAACACCCAGCTGCAGCCAGAGCCTGTGGTCCCACTGTT AGGTTTGAAGGGAAGGCAAGGTTAAAAAGACACAGAGAGAGTCGGTGGCTCTATGGAAACACAGG TTTTACGTCACAG
WIR-5a	37 A G ---	---	CGGGACAGAGACAGAGAGAGAGTTCTGCAGCATTCAAGAGGTTATTAGGACTCAGTTCTGCTG CTGTGAGNCATCCACACTGGAGGATGAGAACACCCAGCTGCAGCCAGAGCCTGTGGTCCCACTGTT AGGTTTGAAGGGAAGGCAAGGTTAAAAAGACACAGAGAGAGTCGGTGGCTCTATGGAAACACAGG AGGTTTACGTCACAG
WIR-6	63 A C ---	---	TAACCCCTGAAACCTTTGCTCTCCTCATCTCAGGGAGAGAACACAGACTTCATGTTAAGACCCAGAA[AC]
WIR-7	12 C T ---	---	CGAGCTCTGGGGTGGGGCAG
WIR-8	46 C T ---	---	TTGCTGACTATT[CT]AAGCATCTGTAGAATATTGAATACATAGTCTTGAGATTGATC GGCGTCTATGACTATCCTGGTCACTTGGTACTTGAATGACTTAATGATTCCTG[CT]GCCCTTG
WIR-2	56 C G ---	---	AAACAGAAAAATAGAGGTTATAAGGATGGAACCTAAAGTTGTCAGAGAGAGGTATGA[C/G]CTGAAG AAAGAAATTACTCTCTTTTGACCAATAAATACAATTTGGAAACACTGGAAACCATGGCTTGATTACT GACAAC
WI-7069	93 G A ---	---	TGTCCTTGCTTATGCCTGCCTCTTTGCTTGGCAGGATGCTGTCATTAGTATTTCAACAAGAGTA GCTTCAGAGGGTAACCTAACAGAGT[G/A]TCAGATCTATCTTGTCAATCCCAACGTTTACATAAAA TAAGAGATCCTTTAGTGCACCCAGTGACTGACATTAGCAGCATCTTTAACACAGCCGTGTGTTCAAAT GTACAGTGGTCCCTTTTCAGAGTTGGACTTCTAGACTCACCTGTTCTCACTC
WI-18694	41 A T ---	---	GGTCATTTCCCTTTTATGTCAGGGAGCCAGCTGACTGACTTATCTCTGTTTCTGTCATCTCTCC CCACATACCAACTTCTTACCATGATGATTATACCAATAATACAGTTCCTTATATGAGGGGCTCTGGA AAATTAGACAGTGAAG
WI-18612	37 A G TGC	CCTATATTTCA AGTTTGGAAA CTTGCAAT	CACACTGTTACACCTATATTTCAAGTTTGGAAATGC[A/G]TATTTGCAAGCAGCAATACAAAAGTA TTTATGAAGAATGCATAATCTCTGAAAATTATGAAAACATCCCT



WI-18517	87	C T	CAGGAATCAG GTGCAACA	TGTTTGACAA GTGCAACA	TTAAAAATCAACTAGGGCTCACCCCTCAACACCCCTCCATTGTCAACCTCTACAGCTGCATGCC ACAGGAATCAGCAGCCTGA[C/T]GTGGCACTTGTCCTCAACACAACTGACTGC
WI-18568	76	C T	GGCGAAAAAC TAGGCAAAAA GC	GCTAAATTAA CTGCACITTTT GC	CGATTGACAACTTTTATTTTCAACTTAGGTAAACAGTCCAAAATCAGTGTAGATTGGCGAAAACT AGGCAAAAA[C/T]JAGCAAAAAAGTGCAGTTTAAATTTAGCAAAAGGCTCAAGACAGATGTGTGGAAGGAA GGTGAGATTCCCTCCTACT
WI-18680	75	T C A	GCTGTCACTCT AGCATCTGGA	CCTCCTGAATA TACAACGGAGC	TAAACATACGAGTACTGTACACGCAAGCATGCATCCCTGAGTCTGAGTGAGGCTGTCACTCTAGC ATCTGGAA[T/C]GCTCCGTTGTATTCAGGAGGGGA
WI-18704	99	A C	GGTTCCTCGA GGGTAC	TGAAGGCCCTG CTGG	CACCCAGGCTGTACCCAGGCTTCTTGTGCGAGCACACACCAAGGCGAGTTGGGCTTGAAGGAGCC CTTGAGGAACACGGGTTCTCCGAGGGGTAC[A/C]CCAGCAGGGCTTCAAGCTTAAAGTCG
WI-18673	29	A G ---	---	---	TGTGGGCAAACTTGTTTTAAATTGCAAA[C/A]GJACTTAAATTACAGCACATTCAATAATGAACCAAC AGGAGAGTTGCTGACTTTGTAAACATATGAATATATAAAAAATCCCTTGCAATTCAGGTAGTCAAGGTA AAAAGCGCATACAAGGAAG
WI-18640	121	T C GGG	GTGTTGGGGTG GGG	GCAAATACCAC TGAAGAGGAC A	ACCAGTCATGTTTATTGGAGGTTAAATTCCTATTAGGATATGAAAGGATTACGCAACGATTGAGATT GTGTTCTCAGGAGGGGCTCGGGCAAGGTGCTGGGTGGGGGTGCAGAG[T/C]GTGTCCTCTTC AGTGGTATTGGGAC
WI-18533b	91	T C ---	---	---	GGGAGAGGAGGTAGATTGCCAAATTGAGGCATTTTTTAACTCCCGAGATTTCCTCTTTATT TATATTTTCATTTTTCATCCTAA[T/C]TTACTGAAGCCATTTTCTTTGGTTAACTTTAGA
WI-18533a	59	T G ---	---	---	GGGAGAGGAGGTAGATTGCCAAATTGAGGCATTTTTTAACTCCCGAGATTTCCTT[G/C]CTTTA TTTTATATTTTCATTTTTCATCTCTAAATTACTGAAGCCATTTTCTTTGGTTAACTTTAGA
D11734	83	A C TTC	TCATCTGATAC CTTGTTCAAGT	AACCAGGATA AGGCTACAAC ATTT	GAGCATATGCTGCATGAGGACCTTTCTATCTTACATTATGGCTGGGAATCTTACTCTTTCATCTGATA CCTTGTTCAAGATTTC[A/C]AAATAGTTGTAGCCTTATCTGGTTTACAGATGTGAAACTTT
D49493	159	A T TCTGGGAATT	CCTGAAGGAA TCTGGGAATT	ACTTTCAGGCC AGGC	CAGGACTTGTGGTGCAGCTGCAGACACAGACAGCAGCTCATGGGCAACATCACTGGGGCCAGAGAG AGCTGTCCGCCAGTGCATCATTAGGGGTCTTTCATTGCTAGTACTAGCCCCCTTAAATGCCAGCCTG AGTACCTGAAGGAATCTGGGAAT[T/A]TGCCCTGGCCTGAAAGTGGCCCATCATTCATCCCACTGTT CT
EST10030 7	98	T C TCTCAAGTCCC	CATTTTGTTC TCTCAAGTCCC	GCAGTGGTGGT ATGGAIGA	TATTTCATAGAGGAGACCTAGGAGGAGTTGACACAGCACACTGCTCAGCAGATGACTTAAATTTT CCCTTAGCCATTTTGTCTCTCAAGTCCC[T/C]TTCATCCATACCACCACTGCTGATTG
EST10052 2	24	G A GAGGCTG	GCTCACTTCTG GAGGCTG	TGTGGAACCTC AATCTTAGACT TC	TATTTGGCTCACTTCTGGAGGCTG[G/A]GAAGTCTAAGATTGAGGTTCCACATCTTGTGAGGGCTTC CTGTTGAGTCAACCTGGTGGGAAGTCAATCATGTGGCAAGAGAGAGGGCTACAGAGAGCAAGAGGAA A

EST10605	118 C G	---	CTCTCAAGTAG	GCTAAATTTTC	CTTGCCTAAATCACAGTTCTGTATTCTATACAAAAACCTTTGTTTTCTCTGACAAACTGTACACATAGA
2			ATAAGAGGCA	AGAAAAGAATT	AACAAATTTCCAAATGGACAGGAACCTTAAATTTGTGGAGATGCCCATGTC/GJTTGTGAGACTTAA
			TAATCT	TTGTTT	AAAAAGAAAAAGATCCC
EST11048	61 T G				CATGTGTCAATCCCATGATTGAAAAGACATGTTGCTCTCAAGTAGATAAGAGGCATAATCTT/GJAA
0					ACAAATCTTTCTGAAAAATTTAGCTTATGAACCTCATTACACTGCAACCCAGAGAAGGAGCAC
EST11260	101 G T	---		---	TATGGAGGCCAGAGGAAGTGACACTATATGTGGAAGTGCTGAAAGAAATGAAGTGTCAACACAAAA
8					TTCTATATCCAGCTAAATATCATTTAAGAAATGAAG/GJTTGGAAATGAAGGCAATATCAGATAAA
EST11349	109 C T	---		---	TTTGATGGAGAAATCCGAGGCCCTGCCAGCATCCCAACCATAGATTCTTTGGACGAAGAAAAATCCT
9					TCTGTGGATTACAGCTTTACCGCCTTTCCTCATCTGCTGTGTC/GJTTTCCCTCAGAGCTTTAATGTCCGT
WI-16632a	71 A G	TGGAGCCT	CCAACTACTT	CTAAAACTCC	CCTGCTCTCCGAGTCAG
				T	GAAATCTGGGTATTAATAGCGGGTGCCACAGGAGCACATAGGAAGAGCATCCAACCTACTTTGGAG
EST11772	74 A G	---		---	CCCTJ/GJAGGAGTTTTAGAGAAAGCTGGAGCCCGAAGACCAGTAGTAGGAGTAGCCAGACCAA
6					AAGGAGGAAGGAGTGGGAA
EST11795	82 G A	---		---	CCAGGAATAAAAAAGAAAGAGTCAGAGGAAACAGTCTTTGATGTTATGAGGCTGAGACACTACTC
3					TTCCCTTCAJ/GJGACTATTTTCATCTGACTATAAGTGAATAAAATACATTGAAGACTTTCAGGAGCTCA
					CTGTCCATTATTTTGTGCATGTTGTTCTTAAAGGCTTGTAAGATAACTTGGAAATGTGGAAAC
WI-16644	42 G A	TAC	CAATAAGCAG	ACTTCATGAAT	ACATAGATCCAGAJ/GJATTAAGGGGCTGGAAGTAGCCTTAAGAC
			CTCATTTTGAT	TTTACTTCATG	AGAGCAATGGTGGCATCTCAATAAGCAGCTCATTTTGATTAC/GJAGGTATACATGAAGTAAAAATTC
EST12005	56 A G	CAAAGTCTGT	TTGTATAATA	GGCTGGTCACT	ATGAAGTAAATTCATTATACCAAAAAGCCTCCACAGAACTTTTCATGCACCCCTGAGCTATGTGAAC
9				TOCTGGAT	TGAAAAAGTAACAGTGGGAT
EST12055	32 T C	---		---	GCCTAGTAATTCAAAAAGGAACATGTTTGATAATAACACTCAGTACAAAAGTCTGTJ/GJATCCAGG
					AAGTGACCAGCCGACGTGTGCTATGACCCCTCTGAACCTCCCATTTCCATAGTTTTTGAATC
EST12492	95 A G	---		---	GTGGAAAAATTTTTTATCTGTTACGCTTTCCJ/GJATTATATTATCTTGCTTTGATTTTCAGCACCC
1b					CACCCGATTTGCAGGCAGTGTCTTCTAAACTGTGCCCTGTGAGCTGTAAAAAGTCTCT
EST12492	25 A G	---		---	CCCCTAGCAAATGACTTGGAGTTGTGTCCAATTACCAAGTTACATACTGTTGCCAAAATTAAGCTCTC
4					TTCCCCAGAGGCATTAACTGAGATTATJ/GJGGAAACGCACAGCAAAAATTGACGATGCAGCTTTTITA
					CCTTTTTA
EST12492	25 A G	---		---	ATCTTGAGGTTTCTGGCCTGTGAGJ/GJAAAGTGACATCTTTTACTTACCACAGGTGAGGAACCCCTAT
					AAAGAAACTGTGTAGAAAAAGATATCAGGTCAGACTTTTTTAAAGGGCTTCTTATCAGCTCAATAAA

EST12502 2	52 C G ---			ATACTAGGGAGAAAACCAAACTGGAGGCAAGTCCACAGGTCCACACTTGTCA[C/G]CAGCAAGTAT AAACAAAGTGGTTTCGATGAAGAGAAAATGCTCAGGGGAAATGACCAATTTTAAAGGGCCATGTG GTCGTCGAGGCAGTTAGAGG
EST12619 8	105 T C ---			CCAGAGAAAATAGAAATGATCGGTAAAGAAATAGGAATGCATATTTCAACTCACTGTCCACAAA CAGGTGTTTATTATCCAAATGACAGTGTCCCTGAGAT[C/G]GATGCATGTGGCAGACGAG
EST12620 0	67 A G ---			TTTTCTCTCTCTTCATTTATTCATTTGTTCAAAACACTGTCTAGTACCAACATTTGCCACCGGC[A /G]TTGAGAATACAATATTGAAGAAGAGTCACTGCCCTCTGGAAAAATCAGAGTATTTGA
EST12817 9a	22 C A ---			TTGGGTTCTCCAGGATTCAG[C/A]CTCGTAGCTGATGTGCATGAGGTTCTCATCCATGCTCCACGG GTTCTTGGGAGTGACCGGATGGGAATCCATGTTGCTTTGGGTACTCCATCAGGTCAATTGCG
EST12941 8	23 T A ---			TCTCAGCTTCCACCTGACCTGCA[T/A]CAACAGCCCGATTTTACCAGAAATTTTGTGCGTTTCA ATGTAGTGTTTAGCTTTAATACACTGCACCTGTTTG
EST12949 2a	52 A G A T A C T G T T	GGCTTTAATCA TAACCTAATA	TGTGTCCTGT GGGTCTC	AGGATTTTCATGAGGCTTTAATCATAACCTAATAACTGTAAAAACAACAC[A/G]TCTGTCACTTG CAGAGACCCACAGGGACACACATTCCTCTCTCATAGACTCTGAGGTAGGAGGTACACTGGCT AAGGAATAA
EST13067 4	104 C T ---			ATTTTTGTTTTCTTAAATGAAGCATAATAACAGTTAAAAATCTCAGAAAAATCATCTATAGTTGA GTGTAAACTCCCTAAATCAGTCTTCTAGGGCCACA[C/T]GGAGCAGAAAGCAGCTTCCCACCCAAAG CACCTCTGAAC
EST13117 6	66 A G ---			TGCTGTCTGCATCAGTCCTTTTAAAAATTTAATCGCTTTATACAATTGACACCAATAAAATGCAC[A /G]TATTTAAAGTTTACAATTTGAGAAGCTGACACGTGCCATACAGACACACCTCATTTTACTGTGC TTTACTG
EST13121 6	44 C T ---			TCTGCTTTTAAAGATTCTTCATAGCTGCTTAGGTTGTTCTTCC[C/T]AGCATATTCAGCTATAATCA CCTACATCCCTCCACAAATATTCCCTGTGTGTGCCAGGCCAGTCTCCTCACTGTCCCATGAATAGCC AGTCTATTCCACTCT
EST13226 6	74 T G ---			AACTGTTTACTAACAAAGGTGCTTTAAATTTGAAAAGCATTGAGGAAATAAATAATGAAATAGTCT GGCCATT[T/G]GACTAACCAAGTTCTACAAATTCACATATCCGTCACTCAGATGAGCATATACCAAG TCAGAGGAAACAAAACATG
EST13230 6	72 G A A G A C A C C G C	GCTCAGATGTG ACAGAGC	CCGGCTCCTGT ACAGAGA	GCATCATCAGCGGCTTTTACTGAACITTAACAACCAACTTCCCGCTCAATATGCAGCTCAGATGTGAGAG ACGC[G/A]TCTCTGTACAGGAGCGGTACTGTCTTCAATCCTTTGCATGCAGGTGTTTACCACAGGCA AACAGTTTACTCCACAT
EST13236 9a	70 T C T C T C A G G C C T	AACAGAGGTT TGACAAAAAGA	G	AAAGATATAAAAAACAACCTCCCATCAGTAGCAATACAAGGTTATACATTTTAAACCAGATTTTCTCAGG CC[T/C]TTTGGATACCTTTAGTAGTTAACTCTCTTTTGTCAAACCCCTCTTGTATATAACCA

EST13278 2a	51 A G G	CATTACCGAA CAATATTTTAG	CATATCTTGG GTGGTGAGAA	TTGCAGAACGTTTTACAAGCTCCAAACCTTTTACCCGAACAATATTTTAGG[A/G]ATTTGAAATTTAT TTCTGTAGTTCTCACCACCCCAAGAATATGACAGCTTG
EST13282 0	99 A T	CCACACATTTG AGTCCAAGA	GATGGAAAAAT TGAGGAAGGTT	GCTCACTAGATGAGCATTGACCAAAATATTTAGATAATACCTGTTGGGAAAGTGCTGAATTAAGCTAGCC TGCCTGAGAATCCACACATTTTCACTCCAAAG[A/T]AACCTTCTCTCAAAATTTCCATCTCCCATCAGA GG
EST13290 9	39 A G C T T	CAATTTT TAGA AGTTGGGTTT	AAATCACTTCA TGGAAATTTCA	AGCTCATCTGCAAGCAATTTT TAGAAGTTTGGGTTCTT[A/G]CTGAAATTTCCATGAAGTGATTTT TTTTCTGTGCTTAACCTTCACTTAAAGACCTTAAAGACCTAAAGACAAAGTGGTATCACATCACATATTTTGT ATGTGGGGCTTTTTTG
EST13518 2	45 C G ---		---	GAAACATCCTCCAGTAGTATTGAGGTTAAATGATTGAGCATTTA[C/G]ACTTTAAAAATTACCTCA ATGTTCTCGAGTCTGCATAGTTTAAATGACTTCTGCACCTTCTTATAACCTTGATTG
EST13522 8a	66 A G ---		---	CAGGTTGGTGATTCTCAACTAGGAGCTATTTTGGCCCCCATCCCCACCCGGCAGTGTCTGGAGAC[A/ G]TTTTGATTGTCACAACTCGGAGAGGTGGTGCTACTGGAATCACTGGGTAGAGGCCA
EST13568 6	69 T C ---		---	CTTTAAGGAAGTGAGCCAGATGAATCCAATGACCAACCTGGTTGAGAGCCATTGGTCTAGGAGTAGA AA[T/C]GCACACAAGGAATAAGGGAGAAGGAGGTTCGGTTAGTTGAGGGAGAGAAAGTTGGAAGCA TTTCAAGCTAAGTAAATGGT
EST13785 0	101 C G ---		---	AAGATTACGGACCATAAGAACTGCCCCCGACCCCATACACACACAATTTATAGCAGGTAAAAACCAA CTGAAAGGAACAAGTAATGACTTTCTTGAACAAA[C/G]TGATTACGAAAGTGAAAGGCTACAGGG TGATTACTA
EST14038 1	25 A G ---		---	CCTCAACCATCTGTAAACCGAGCCCC[A/G]CAGTGACCGGGACTTGCTGCTTCCCCCATCCAGCCCTCT CCTATCAGCATCCGCTAAGCGTCAGTCAGCAGGIG
EST14083 7	23 A G ---		---	CAATGGTGTCCTATGTGAACATAT[A/G]ACCTATTTCATAAAGTTAAAAATAATCCCTTCTTGCAATCA CAGTGCAAAAGGCATGAGGGTGAAAGTCATCTGCTAAATGACCCGAACAGGAGGTAGGAGG
EST14221 5	42 T C	GCATGCTAGA CAGAGGCATT	GGAACAAGTC AAAAATATTTT AAAAGA	AAATCAATGCAATCTTGTGGCATGCTAGACAGAGGCATT[A/T/C]TTTTGAAGATCTTTTAAAAAT ATTTTGACTTGTTCCCCCTTCACACTCATTTTAAATGT
EST14812 2	50 A G A T A	CAAGTCAGCTT CTACATTTCTGA	TAAAGATTTAC TTAAATCCCAT TATGTACT	TTCACTTAGTACCAAGGATGCCTTTTCAAGTCAGCTTCTACATCTGTAATA[A/G]AGTACATAATGGG ATTTAAGTAATCTTTTAGAAGTCCGGAGTTTGCCTTTTCTAACATTTTCATATCAGGTGAAAAACAAT TTTTTCATATGGGTGATT
EST14815 3	128 A T	CATACCCACC ATACTGGTT	CGGGAAAAACA GTACCGGAA	TTTGCTTCGGCAATACATAGTGGCAATGCAGCGTGAGTTCCGCCGTCTCCCCACTGAACCAAGTAAT TCACCAGACAATGGCGCACCACTTAAATAAACTTGCCCGTCATACCCACCATACTGGTT[A/T]TTC GGTACTGTTTTCCCGTA

EST15420 6	109 C A ---	---	TTTAAACCCCAAGACTTGTAGATGTCAGGACTCCGATCATTTTCTCTGCCTATAGCTTGGATATCTTA ATCTCTCCCTTTGTGCATCATATATAGCCAAAGGACTC/A/GGAATTTTGGCTGCTTCAAGTCA TTCCAAAACCTCTCAGG
EST15700 6	48 G C GGA	GGAAAGACAA AGACAACAGA TTATTCTC	GTCACGACACTTTTATTAAAGACGTGAAAAGACAAAGACACAGAGGA[G/C]AGCAGAGAAATAATA TCTCTGTTTCAGCTATTCCAGGATGTTATGCCAATTTATCCAGAGTCTTGATCTGATGTAGTA
WI-16739	57 G A CACAAGC	GATTGTTGATG TTCAATTATCC CTATAA	AAGGATTGAAAACATACCTAGATCATATAAAATTTGTGAAGGTTTTGCCATCACAAAGC[G/A]TTATAG GGAATAATGAACATCAACTATCCTACAGCTAAACCTAATGAAGACCAAAATGGCTCCAAGGT
WI-16782	96 C T CACTGTAAGG TC	CTTCTATCTTT CTGTTCTCTCA TC	CTTCTCTCTTCCCTAGACGTGGAATACACACGATACAGTATCTGGAGATGTAGCAGCTGGCTCTTGAC CATAATGGTGGGAGTCTCACTGTAAAGG[C/T]GATGGAGGAACAGAAAGATAGAAGAAGTTTGGGGT GCTGATGAATTTGGGG
WI-16783	64 A G G	TCCTGAGATGT CTTTACCTGA G	AAAAATGTAAACTTAGAGTTGCCCTCTTTTGTGTCACCTTTCTGTAGATGCTTTTACCTGAG[A/G] CTAATAAGGATTGAACCAAGCAGTATTTTTTATGGCAAAGTCCAGATGTAACTCGAGT
EST15948 2	58 T C ---	---	CAGGACTTAAGGTCAITTTGCCCTGGAAGACTTTAACTAAAGTCAAGGGCAACATAGGA[T/C]GTGA CAGCACCACTCGGACCAAGAGTGTGAAATCGTCACACTAGCGTGCCAGCCCTTTTTCCTGGC TGCTCTGCCTCCAGAGC
EST16088 8	89 G C ---	---	GGTTTTGAAGACGCAGCTTATCTCCACCTGCCACTGGGATCTCAITTTGAGAGCTGTTTTGTACAGCC TTTTCCAGAAAGGCCGCTC[G/C]GGGTTTTCTGAACCCCTCTATGGGCATTTTAGAAT
EST16089 9	96 C T ---	---	CGTCTGAAGTTTTCTTTATCACAAGTCACATCAATCCCTCGGGCCCTGCTCAAATGCCACCTCTTC CTGAAAGCCATCCCTAAGTAGTCTCTC[C/T]AAAGAGCCATCCCTGCCCTTTCTTTGCT
EST16100 1	24 C G ---	---	ATCCAGCTGTGAAGGACAGGAG[C/G]GTAACACACAGTCCATTTATAAGGGGTGTGCACATCCCA GGGGCTCCAAATAATGCAACATTGTTTCACTCGTCCATGCTGCTGATAGTTTCATAGTAAAAAAGTC ACTCCAGACAGGTTGGCTC
EST16104 9a	83 A G ---	---	TTCTTTTAAATAACCCACAGACACCCATGACACTTCCAAATTTACAGAGCAAAAAGTGATTTGCAG CTGGTTCCTCCAGGGA[G/T]TGGCCCCGAAGCTGGCTCAGTTCACCTCCAGGACCTCAGTC
EST16118 0b	119 T C ---	---	ATGGTATAACAAAATCAGTCCAGGTTTTT[C/G]TGAAACAATGATCCTTTGGCTTTTCCCGTGGC CTCCTAAACAACTAAAACAACCCCTCTACGTCTAATCAGTCACCTAAGATATCGAGTGGCAAGT CTTTCACA
EST16118 0a	32 C G ---	---	ATGGTATAACAAAATCAGTCCAGGTTTTT[C/G]TGAAACAATGATCCTTTGGCTTTTCCCGTGGC ATGCTCCTAAACAACTAAAACAACCCCTCTACGTCTAATCAGTCACCTAAGATATCGAGTGGCAAGT CTTTCACA

EST16151 2	53 C T ---			AGCCAAATTCAAACGAACCTCTATCAAAACACACAAAGGCCTAGAGGAGAGATTA[C/T]AATGAACGT AAATAATTCAAAGGCAATTTTGTATCTAAAGCATTTTGTCTAGCTCTACAAAGGCATGAATGAGGTGT GGTCACGTTTTGTATAGGA
EST16182 6	54 G A ---			CATTGGTTGGGTAGGGAAGATAGTAGTGCAAAATAAAATGGTAAACAGCAG[G/A]AAATGGAA TTATAGCTTCTTTTCATATAGGGAATTTGAAATTTATTTACTGAGGTGATAGGCAGAAGTAGTA
EST16183 2b	59 A G ---			GCAGGTAAACTGTGGTTCAACAACGTATTGTTCTTTCAATAAAGAAAGAAATATCTAGTTG[A/G]GTAG AGGAAGGCACGTCTCTCTGGCCCTTCTCGTTTCATATTTTATGTCACTGTCTAACGTGGGCCGTGT GCAAGAGATCTTTGAGA
EST16198 4a	28 G A ---			AATCTTAGGCTCTTGGCTTTCAAAATCA[G/A]TACAGACAGATAAGAGCTTTAAGTATTTTCGCATTT CCCCAGAGGAAAGTCAAGCATCAATAACACACATGGTCCATGCTCACGCACATGGTGTC
EST16229 2c	52 T C ---			TGTGAACCTCGAATTCGCTTGTCCAAAGTCTGAGTCACAGTTTCATTTGGGAG[T/C]CCCTGTGCAGCC CTTGCCAGTTTCCACGAGGAGGATCTCCACTAGCTGATTCAGACAGGCAGAGGCTGCA
EST16229 2b	45 T C ---			TGTGAACCTCGAATTCGCTTGTCCAAAGTCTGAGTCACAGTTTCATTTCTGGGAGTCCCTGTGCAGCC CTTGCCAGTTTCCACGAGGAGGATCTCCACTAGCTGATTCAGACAGGCAGAGGCTGCA
WI-16816	124 A G TGGGTTA	GGAGCCATTGT	GCCTAGATTTT GTTCAGGACAG	CAGACTTTTCTCACACCTCATTTGGCTGGAACTGGGTGACATGCACATCCCTTGAACATCATTTGGCAA AGGGAATGGGTATCAAAATTTGCTTAAGGCCAAGCAGGAGGCCATTTGTTGGGTTA[G/A]ACTGTCC TGAACAAATCTAGGCTC
EST16269 5b	49 G A ---			GCCACTCTCTGTGGCTTGTCTCTGTCCAGCTGTGTCCCAGTGCCACA[G/A]TGGTCTAGCCTCATGG CAGAAGCATTTTAGCCAACTCCTGGTCTGCTCCACTCTCTCCCTCTCCGCCGCTGGGGCTCACCACC TCTCTCTCTCAATC
WI-16824b	83 G A ---			GTCACCCAGCCCAATGCTTCAGGAATAAATGATGGTGTGCTGCAGCTGTTGTTCTTATGAAGAAGTCAG AAGCTGATAAACGTGG[G/A]CTTACACCTTTAGCACGGATAGTTTCTGGTCCCAAGTGGGTGTGGA GCCTTCCATTATGGGAATA
WI-16824a	47 T C CAGCTGT	TGATGGTGTG	CAGCTTCTGAC TTCCTTCATAAG AA	GTCACCCAGCCCAATGCTTCAGGAATAAATGATGGTGTGCTGCAGCTGTTGTTCTTATGAAGAAGTC AGAAGCTGATAAACGTGGCTTACACCTTTAGCACGGATAGTTTCTGGTCCCAAGTGGGTGTGAGGC CTTCCATTATGGGAATA
EST16445 3	96 T C ---			TTGCTTTTATTAATCCAGAACGGCATGCTACAGATACTGTACAGCATGAACATTTATTCATTACAAA AATGGCTTCCAAACCATTAATAAATGAACTT[C/G]GATAAAGAGCATAAACGGAAACAGTAACATCA
WI-16857	47 G A A	CAAATAAGCA GCTAATGGCA	TGTGAATTGGG AAGACCACT	TATAATCCATCTCTCCACACACACACAAATAAGCAGCTAATGGCAAT[G/A]CTAGTGGTCTTCCCAA TTCACAAGACCTGTGCTTCAAATTTGTTTCTTCTGATAATGGGAGAAATCTGCTCTTTATGTA

-201-

WI-16879	79 C T	GATACAGCC ATATTTCCCA	CAAGGCTTTCT AGAACTAGAGT CC	AGACAGGTCAAAACAACTCCTAGGGATAAAGATATAATCCAGCACAGCAATTATTTCCAGATACAG GCCATAATTTCCCAIC/ATAGGACTCTAGTTCTAGAAAGCCTTGGGAGAAACAGGACCCAG
WI-16882	99 A G	GAAATGCCA CGTCTCTGAC	GACACATGTCA GGTAAATCGC	ACATGAATGGCAACCTCTTAGGTGGGAGAGACAATTTCCCCCTTTACCCCAAAGGTTACTCTGAC AAGGCTATGAATGAAATGCCACGCTCTGAC/AGGCGATTTACCTGACATGTGTCATCTCCCT
WI-16888	70 G A	GCTAACTTTGG GCAGGTC	AATGTTCTGAA TTGACCAAATT TAA	GTAGTAAATGTTCACTACTACCCGGGAGAGCAAAAGAACCATGGAACGGTAGCTAACTTTGGGCAGG TTC[G/A]TTAAATTTGGTCAATTCAGAACATTTCCAAAT
WI-16905	75 C T	ACTGGCCTGT GTTGTTCA	GTCTATACTCT TCTAGGCAGTG GG	TTTGTGTTGTTGTTATTTGCCTCCCAACATCAGAACATAAGTTCCATGAAAACAGGAACCTTTGGCCTGTG TTGTTCA[C/T]CCCACTGCCTAGAAAGATATAGACA
WI-16910	74 G A	AAGAGTAAAG ATGGCGCTAG AA	CAAAATGAAG TATCGTTTCTA TAACAGA	AGTTTTCAGTATGTGCTTAAGGAGGTTATATCGCTATGACTTTTCATCTCAGAAAGAGTAAAGATGGCG CTAGAA[G/A]GTATCTGTTATAGAAACGATACTTCAATTTGGCCTGAACACAGTGAAGGT
WI-16918	93 C T	CAGCCATTAA CACCAGCAC	TCCTGATACAG AAGTGGCATC	GGAAAGAAAAATAAACTACCACCATCTCTCTGCTACCACAGAGCACATAAAATCTAGGAATTTGAC TTTACTGCAGCCATTAAACACCAGCAC[C/T]GATGCCACTTCTGTATCAGGAACCTTAACTGACAACC ATGAAAGGTCCTCTGAAAG
WI-16947b	127 A C	GGAAGCAGA CCTGGG	ATGTGATTGCC CGTGG	TGAGTCAAAACGATCTTGACGGGAAGCTGTTAGAGGTCTCATGGAAATAGGCCTGGAGCACAGGATT TGGCTGAGGCTTTCAACTGACATCAGACAAGACTGCAATCAAGGGAAGCAGACCTGGGG[AC/J]CA CGGGCAATCACATGAGATG
WI-16947a	58 C G	CATGGAAATA GGCCTGGAG	GCCTCAGCCAA ATCCTGT	TGAGTCAAAACGATCTTGACGGGAAGCTGTTAGAGGTCTCATGGAAATAGGCCTGGAG[C/G]ACAGG ATTTGGCTGAGGCTTTCAACTGACATCAGACAAGACTGCAATCAAGGGAAGCAGACCTGGGGACCA CGGGCAATCACATGAGATG
WI-16966	43 T C	AAATGCACAC TACATAACAA CCTAA	TGCAAGTTATC AGTATAAAAA CTCATATT	CATTTGTTTTACTTTAAATGCACACTACATAACAACCTAATA[T/C]CTTAACTTGGTCCAACATATT AGTATAACTAATATGAGTTTTTATCTGATAACTTGCAATGCCATTAAA
WI-16995	55 T C	GAGCAGTAGA GACTGAGGTA AATAGTATT	CATGTTGATTT CCAGCGGT	TTGAGTGGCAGACATCAAGCATAGAAGAGCAGTAGAGACTGAGGTAATAGTATT[T/C]ACGGCTGG AAATCAACATGCCCTCTCTCTGTGTGAAGTTGTAGCATGGAGCTGAGAAGGCTGAGTCAATCT
WI-16992b	60 T G	---	---	AAATACATGGTGTCAACCTCAGCTAAGCACCAGAAAGTACACTGTCGCCCTCATCTGAGAT[T/G]GTG TAGGACTGTAAAGGAATGTGTTGGGGTTTAGGAA
WI-16992a	46 G A	AAGCACCAG AAGTACACTG TC	CACATTCCCTT ACAGTCCCTACA C	AAATACATGGTGTCAACCTCAGCTAAGCACCAGAAAGTACACTGT[C/G/A]CCCTCATCTGAGATGTG TAGGACTGTAAAGGAATGTGTTGGGGTTTAGGAA

WI-17010	23 T C	TTCACAGGA	AATAATACGGT	ATGTTTCAACAGGAAAGCCATGTCATGACATTCAAAACACCCGTATTATTAGAAGCTCATTTAAT
EST17127		AAAGCCATG	GTTTTGAATGT	TGTTTAAATGCAGACAAAATAACAGGCTAACTAAAAGCAGATCCAATGACCCAGTGATCAACCTAGA
9b	74 C T	CACTCGGCAC	GGGAGGGCAGG	GGTCCACG
		AGACAGAGT	GGTG	ATTCGTCCTCCAAACAGCATCCAGGCGGGGCATCTCCCCACGATTTTATAATACACTCGGCACAGA
				CAGAGTCCTGGGAGCCATGGGGACCCCTGCCCTCCCAAGGCTCCCTAAGTAACAAC
		AATCTCTTAT	GGACTATGGCT	CACGCGTTCATTAATTTGGTACAAAAGCATGAACACTCAGGACAGATTGGCACAATACATGCAAGTTC
		CATCTCAAGCC	TATTCAGTGAT	GAGAAATCTCTTATCATCTCAAGCCAGTCATCATCTGAATAAGCCATAGTCCCAGTCTCGTTTTCC
WI-17040	94 T C A		G	AAATCTTCTCATATTGT
		GCCAAGGGAT		TTGTTTGGTTTTGTTTTCTCTCTCCGCAAGGGATTAAAGTATAGGTCCTTAAACAAGGGGATC
		TAACGTATAG	GGGGATCCCT	CCCCACTTATAGCTGACAGCAGCAGCTGCAACCACTGACTCTCCTGCAGATGGCAGGGAATCGAAT
WI-17044	47 G T G		TGTTTAAGA	CAAAAAGAAAAGCAAGTG
		TGGACTTGTC		GCATGTGTTGGAGCAGATCTCCATGGTAAGCCAAAAGTGGACTTGTGAGCCTATAACTACTCTTAAG
WI-17021	62 T A ACTC	GCCATATACT	TGTAGAGTTAG	CAGCTGCCACTAACTCTACAGGCACAGTAACACTACACTTTATACAGGAGCAGATGCCAAAGTGCCTGG
			TGGCAGCTC	GAGGTGCCCAATAAAATCAA
		CCAGAAAGGA		TGTAATAAATGTAGACATGGGGGAAAAAACATTCGTAATCAACATGTGCTGTTTTCTACTTCCGGTA
WI-17065	90 T C TT	AAAGCATAAA	CCCAAGAGAC	CCAGAAAGGAAAGCATAAACTTTCAGGATTTCATTGCTCTTGGGT
			AATGAAATCCT	
		TGTACAGCCA	GAGATGTTGAA	
		ACATCACTGTT	AATGTTCTGGA	TTCATAAGGTTGTACAGCCAACATCACTGTTTCATCCAGAACATTTTCAACATCTCAAAAAGA
WI-17066	32 A C T		A	AACTCTGCACCCATTAGCAGTCATTCCTGTAGCTCCCTCATATAGGCAATGGCAACTGCTGATC
				TGCTGACTGTCATGACTTAGTAAGGCCATCACAGGTTGCCAGAACATCTACTCAACTGTTCACAGCAT
WI-17074	86 T G ---		---	AACCTCCTACACAGGCCCTTCATACATAGGAGTATATTTGGCCAAAGACTACCACTAGAAAGTGATT
WI-17104b	108 T C ---		---	CAGATGAGAACTCATGCTGGCTCATCTGCAAGCTTCTCTGATGCTTTGGAGCTTTCCCATTCATTCCA
				AATCAGAAGCAGTCAGTGGCCCGTGGTTCCAGACGGCTTCCTCTCTTTGTTAAGAAATTA
WI-17114a	37 T C GACTTTGTTTT	TTCCATCAAG	TTGTATTATAA	AGCGTCCAACAGATGTTCCATCAAGGACTTTGTTTTTCCTCTCTCTCTGCTATTTATAATAC
		GATGAAATTC	ATAGCAGAGTG	AAGCTACCTCCCAAGGCCAGATGCTCTAAGTGCTAAAAGAAAGACTGCAGCCACAATCAGAGTTACAT
		AGATAGTCTTC	AAGAGAC	GGGA
		GCTCTT	TTCTCAGAATC	
WI-17150	76 T G CTCTT		CTGGAAGATAT	CGTGGCTGGACTAAGTGCTCTTCCATGTGGACACATCTCCACTGAACAGGATGAAATTCAGATAGTC
			G	TTCCCTCTTTCATATCTCCAGGATTCAGAAAGGGCTCCTTTGCTGCTCTAATTT
		CATTCCTTGT		GAAATCGAATACGTCCTATTTCTTTGTAAAATAACAATAACGTTTCAGAGGCAAAAGCAAGATCTG
		AAAATAACAA	CAGAATCTTGC	TAAACCAACATTGGAAAAGGGGACACAGGGAGGGGAGGAAAGGCCAGATTTTCAACGGTTT
WI-17163	43 A G TAACGTT		TTTGGCCTT	CCTCCACATCTGCAGACAAA



WI-17178	127	T C	GGACTCCCTCA	CCCTCAATTTT CAACTGCTTC	AGCAATGTCCCTCCAAATTTTCATTAGCTATGATGGAGTTATCAGTTTCATTTTCAGAGCGAAATTTACTGG GGCGAGGGGGTTTAAATATCCTGATGGGTTTAAATTCAGTGAGGACTCCCTCATGAGGAGCTTC/JAGAA GCAGTTGAAATGAGGG
WI-17180b	81	C G	---	---	TCATGGACATCCTGAAGCAGACACACAAAATATAGAGAAATCCTGCACITCCCAAGTCTCGTCGCACAG GCTTCAACAATAC[C/G]AACATCTTGCCCATTTTGTTTCATTATCGGCACCCACACTGACAGATGAG GGAGTC
WI-17180a	47	T C	TGCA	TGCGACGAGAC TTGGG	TCATGGACATCCTGAAGCAGACACACAAAATATAGAGAAATCCTGCACITTC/JCCCCAAGTCTCGTCGCA CAGGCTTCAACAATACCAACATCTTGCCCATTTTGTTTCATTATCGGCACCCACACTGACAGATGAG GGAGTC
WI-17156	54	G C	TCCCA	CAAGAAATAT ATATTTGATTC TGTGGAA	TGAGGTAGCAGGGCATTCTTAAGAAATGTTCTCTAACTTTAGATATCTCCCATG/JTTTCCACAGA ATCAAAATATATTTCTTGTTGGAAATTTTAAATGTTCTTAACATCTGCCTACCATCCACCTCAAT TAATATCTTG
WI-17149b	79	T C	---	---	CAGGCAGTTAATGTGCTGACATAGTAACAAGTTTGAAGGAGGAACATCTCATGACGTGCGTGGAA ACCCAATTGTCA[T/C]GTGTATGAACACAAAGGATGGGAAAAGAACACATTTCTCTACA
WI-17149a	48	C G	CAAGTTTGA AGGAGGAACA	CCACGCACGTG CATGA	CAGGCAGTTAATGTGCTGACATAGTAACAAGTTTGAAGGAGGAACATG/JTTCATGACGTGCGGTG GAAACCCAAATTTGTATGTGTATGAACACTACAAAAGGATGGGAAAAGAACACATTTCTCTACA
WI-17197	67	G A	CTGGGGCTAC	GGTGAGGTGGT GCATACC	ATTTGCTATGTTGCCGTGGCTGGAATCCCTGCTGCCTCAGCAGAAGTAGCTGGGCTAC[G /A]GGTATGCACCACTCACCTGCTTATCAGTTTCGTTTAAAGAAATATTTGACTTTTAGATGCGCA
WI-17198	38	A C	CCTAGTTT	TCCATTGTCC ACTGAGAAAT	TGATTTTCAGTACTTTCTCCCTTGTCCCTAGTTT/JCTAATTTCTCAGTGGACAAATGGACAA ACCATCTCTGTTGAATTTGAATACACAGATACATGCAAGATATCTTACAAGAAACAATGCACATCC TTC
EST18753 8	27	C T	GGTCTCAT	GGATCGCATGA GCCTGA	TCGCTATGCTACCCAGGCTGGTCTCATG/JTTCAGGCTCATGCGATCCCTCCTGCCTCTGCAGTGGCTGG GATAAGACACAACCTGCCACCAGGCTGCCCTAGGAGTAGTCTTAATGCCGTGATGGTGGG
WI-17108b	74	C T	CA	AACTACGATTT ATCATATGCTC CC	TTATTTTAAACATAACCAGATGCACCTTGGTTTTTACATTTCTCTGGTTGCCATTGAGTCTCAAAAGT AAACAC[C/T]GGGAGCATATGATAAATCGTAGTTTAAAGGAAGCCATAGCACITACAGAGT
EST19067 2b	41	A G	---	---	ACACAAAATTTTACCATGTCACCATTTAAGGGTATAGTTCA/JGJGTGGCATTAAAGTACATTCAACT TTTTGAGCAACCCGCCATCACCATTTCATCATCCATCTCCGTT
EST19067 2a	40	A C	TTC	AAAAGTTGAA TGTACTTAATG CCA	ACACAAAATTTTACCATGTCACCATTTAAGGGTATAGTTCA/JAGJGTGGCATTAAAGTACATTCAACT TTTTGAGCAACCCGCCATCACCATTTCATCATCCATCTCCGTT
EST19125 8	28	A G	---	---	CTGTTTCTCAGAGATGACACTGCCAACA/JGJTCACAGATTTGCATACAATACAGTTATGTTATGGC TATTCACAAATTTACAGTAGTGTTTTTTCTCTGAAAAA

EST20824 8	115 T G	AGTCGGGAGT GCTGATTG	AAGATTTTATC TTGGACCCGA	GTGTGAAGCCGGAGTTTATTATTATTAATCAAGTCTCTCTGAAACATCAGGGATTGAGGTTTTTA AGGATAACTTGGTGAAGTGGGCGCAGTAAGTCGGGAGTGTGATTGTTGTCGGGTCCAAGATAAA ATCTTAGG
WI-17347	50 A G	ATCCTCAGAA CTTCTCAGCCT	TCAAGCATCCA CTTGTGCTA	TTGGTTAAATGATGCCAGATGGGTGCACATCCTCAGAACCTTCTCAGCCTTGAAGTACACAAAGTGG ATGCTTGAAGAAACTCAGTCTTGGAACTCAGACAGCAATGGAGACGGGATGTGAGTGGGACCA
EST21904 b	128 G A GTG	TTCAATATGGCC ATTTTAATAA	GGCAGGTGTTT AGAAAGCAT	TGATTGTGGTCTGGAGCAGGTGGCAGTTCAGTGAGGAGCAGAGGAAAGTAGACGCGAGTAGAAAT GAGACTGGAATCAATAGAACAGAAAAATGTACTAGGCTTTTCATATGGCCATTTTAAATAGTG[G/A]TA TGCTTTCTGAACACCTGGC
EST22111 3	82 T C T	GAAGATCTGT CTGGCATTCTT	TGGAATAACA GCCCCAC	CAACAAATGTAGACATAAGGGAAACAAATTCAGAGAGCTCAAGTCACCATGTTTGTCTAAGAGAAGAT CTGCTGGCATCTTTT[C/G]GTTGGGCTGTTTTTCCAAGGCACA
EST22197 2	78 T C TATCTGCCA	AATTATTCTGC TATCTGCCA	ACCATGAAGG ATGCGGT	GTTTAATGATCACTCAACAAAATCCACAGGAGAACTCTTAAATGTTTACAAGCACCAATTATTCGCT ATTCCTGCCAT[C/G]ACCGCATCCTTCATGGTAGAGTATCACAAGTAAAGTTTTCTGGTTGTTTCATC TACTTAAACCA
EST22311 9c	92 T C ---	---	---	TTTTTCCATGGATTAGATCATCTTTTTTATTGAGTTATAATATACATAAAAATCCACCACCTGTAAACAG TAGCAATCAATGGTTTTTACTCTA[C/G]TGCAAGCTGGGCAACTATCACTACTATCTAATTCAGAA CACTTTCATCATCCAG
EST22311 9b	54 A G ---	---	---	TTTTTCCATGGATTAGATCATCTTTTTTATTGAGTTATAATATACATAAAAATCC[C/G]CCACTGTAAA CAGTAGCATTCAATGGTTTTTACTCTAATGTCAAAGCTGGGCAACTATCACTACTATCTAATTCAGAA CACTTTCATCATCCAG
EST22311 9a	41 T C GAGTTATAA	GGATTAGATC ATCTTTTATT	TTGAATGCTAC TGTTTACAGTG G	TTTTTCCATGGATTAGATCATCTTTTTTATTGAGTTATAATA[C/G]ACATAAAAATCCACCACCTGTAAA CAGTAGCATTCAATGGTTTTTACTCTAATGTCAAAGCTGGGCAACTATCACTACTATCTAATTCAGAA CACTTTCATCATCCAG
EST22319	19 A C ---	---	---	TCGAGGAGCTCTGAGGAG[C/G]CACCAAGGGACGTGTGTCCAGGGCCACCGTGCAGGCAAGTGTG GTCCAACTCCTCCTCCCTTACAAAACCTCCAGCCTCACCCACACAAACACTGGCTGACAGGCCCTCT TAAGCCTTTTTTAACTGT
EST22433 c	103 A G A A	AAGACATGTT CACCAAGTGA	CAGCTTCAGCT TAACCTGACAGA AGTTTCAGTTT	GATGTTAATGACTTTTCCCTTTGAGATATGATGGAAAAATATCCAGGTACACATGGAAGAAAGACATGTT CACCAAGTGAACCAATCTAACAGAAAGCTTTACC[C/G]CTGTGAGTTAAGCTGAAGCTGAAATTT CTGGGAGCTTGACATGCTG
EST22657 9	71 A G TTATCTGCACA T	AAATGGATCC TTATCTGCACA T	GCATGAATTTT T	TATCCATTTCAAGAAAAAAAATGACTTAAAAAATACAATCTATCCAGAAATGGATCCTTATCTG CACA[A/G]CCATTGAAGAAAAAAAATTCATGCAAACTGAAACTATGCTTT

EST22993 5b	71 T C	ATCCTTTGTT TCTACCCC	TTGCTGTAA TTTGAAGTAA TG	GCCTTTTATTGCTCCTCTTTTAAACATCAAAATGTTTTATAACACACTTGATCCTTTTGTCTACCCCCA ATTTC/CATTACAGTCAAAATTAACAGGCAATATAATAGTCTAACAGAAATGCTTGCAATTT
EST23021 0	108 T A ---		---	TTATTTCTCAGCTTACCATTGTTGTACTTATCTCTGTACAAGGTGTTTTTCTCCATGGAGAAATG TTAAATCTTTGTGAGGTTAAATTTTATTAACTCTTGCCCTT[T/A]ATGGTTTTGACAGTTTGTGTCTTTCT T
WI-17387	55 C G	CCTTGCAGAT TGAAGAAAA	GCCTTGCCTA AGATTAATAGT AACTACT	ACAGAA TTTTAAACATGCAAGTTTTCATTACATTACCTTTGCAGATTGAAGAAAAA[C/G]AATATTAG TAGTTACTATTAACTTAGGCAAAAGCCATTTCTTTG
EST23669 1	101 A C	AATGTAAGCT CCAGAGGCAG	CCTTCCCTCC TGTAAGC	TTTTTGGCTTGTCTGCAGATAGATGAAAAGAGAAAAATATACCCAGATACCTTTGCTCACTCTCCCCA AGTGCACACTAGGCAATGTAAGCTCCAGAGGCAG[A/C]GCTTACAGGAGGGGAAGGACGCTGAGGC CAAGAGTGTGCTGCTCACTG
EST23733 9	31 T G TT	GGCTGTTAGTT TTGTTTTGTTT	TGCACITTTAAA TCCCATCAAT	AAAGGCTGTTAGTTTTGTTTTGTTTTTCTCTT[G/T]ATTGATGGGATTTAAAGTGCATATAACTGAAG GCAAAGTCCAAAGGCTAGAGAAAGATATAGGCCCGAGAGAGAGGCTCAGAGATTCTAGAGGCGGC TGAAGAATACCCACCTAAA
WI-17470	83 A G	GTCCCGTCCCG CCAG	CCAGTGACGAG GCGA	CTGACACGTCCTGTGTGCGGGGTGTCCTATGTGGGTGTGTGTGAGTGAGACTTTTTTACTGCGTCCC GTCCCGCCAGCCCT[A/G]TCCGGCTCGTCACTGCGCTTGGTCACTTTGTATTCTGCTTGGTTGGAAA TACCATCAGCCTTCC
WI-17519	55 T C A	GTGTCTAGC TAATGAATGC	AATTATTATT TGCAGGCAATA CTC	TTTTTAAACGAAATCTCACTACTGCAAAATGCATTTGTGCTAGCTAATGAATGCA[T/C]AGAGATTG CCTGCAAAATAATAATTGAGATCTATTTTTAAGAAGCTTAGAACAGTACATGGTGATAG
EST25356 3b	95 C G ---		---	TCTTTGATACAGGTAACCAAGTTTGTAAACATTAATCAGAACTTCACTGTATCTTCAAGTTTTTGATAT CAGCATCTCTGTGGAGAAAGCAGTGTC[G/T]ATAATGTCAACATCAGGATTTCTTTTT
EST25356 3a	26 A C ---		---	TCTTTGATACAGGTAACCAAGTTTGT[A/C]ACATTAATCAGAACTTCACTGTATCTTCAAGTTTTTGA TATCAGCATCTCTGTGGAGAAAGCAGTGTCATATAATGTCAACATCAGGATTTCTTTTT
WI-17581c	99 C T ---		---	GGGTGACGCTCCAGAAATGGGAGACAAGCCAAATTTGGGAGCAGATTGGATCCAGCTTCATTCACACATT ACTACCAGTTATTGATAATGATAGAACCCAA[C/T]TAGGCGCAATTTACATTGACGCGTCATGC
WI-17581b	86 T C	ATTCACCAATT ACTACCAGTT	CGTCAATGTAA ATTGCGCT	GGGTGACGCTCCAGAAATGGGAGACAAGCCAAATTTGGGAGCAGATTGGATCCAGCTTCATTCACACATT ACTACCAGTTATTGATAA[T/C]GATAGAACCACCACTAGGCGCAATTTACATTGACGCGTCATGC
WI-17596	86 A G C	ACTTCCCTTGTG TAAACACTCC	CATCTTATAG CTAGAAATCGA CAATAT	GTGTGCTGGTAAATGGAATAATAGCAGTCTCTCATCTCTGAAGGTGGGAAGTAGGAGAAAGGCCTACT TCCCTGTGTAAACACTCCC[A/G]ATATTGTGCGATTCTAGCTATAAGAATGGGCCACTAAGTGGGTC

WI-17623	46 T C ---	---	TG TGG TTTTAA TTTTAA TTTCCCATATAA TTAATG TGGTGGGCACATTT/CIGCATGTGCTTACTGGGTC ATTCATATA TCTTTTGTGAAGCATCTGCTCCAATCTTTTGCCTGACTTTGGAGTTTITGGT
EST26419 1b	46 T C ---	---	ATTTTCATACAGAGATACAAAGGCAACTATGTGCAGCAACAATCTGA/T/CJGGCAGTCCAAACTTCT TGGGAGGAAGTAAATTCATGTTAAATGTCATGATGGCTGGTTCGAGGAGAAGGTTCAAAGGAGGTAG AGAGAGGAGACAGAGAATG
EST26419 1a	35 C A AG	CAAGAAGTTTG GACTGCC	ATTTTCATACAGAGATACAAAGGCAACTATGTGCAG/C/AACAATCTGATGGCAGTCCAAACTTCT TGGGAGGAAGTAAATTCATGTTAAATGTCATGATGGCTGGTTCGAGGAGAAGGTTCAAAGGAGGTAG AGAGAGGAGACAGAGAATG
EST26780 5	69 G C ---	---	TCAGCTTTAATTTAAGGGACATGTAAATAAAAAAGATGCATTTGACAGGACAGCAGACTAGTTCAAGC AG/CJAGGTTAGACCAGTAACAACAACCAAGAAAGCAAAAGTCTCGTTCCATCTTGGCTTTACCA CACTTACA AACTGATACCC
EST26900 7	39 A G ---	---	TACTTCAGTTTAAGGCAATTCACACAGAGACTGTCTC/A/GJGAGACGGGCACAGAACCAGACACC GTAGAAACACCACCACCATGCATGACGGGAAGCAGAG
EST27152 1	101 C T ---	---	CAAAGGATTTTATTTTGTCCCTAAAAAGTAAATCTAGAAAAATAGCAACCCACTGCAAGAAGAGTT CTATACTAAAACATTTTCAATCATCTCTCTCT/C/JTTCACATGGGTACTCTTTCATGTACACAT CATCGGAAAAACAGACTGA
EST27504 0a	33 G A ATTT	GCTGGTGTGAT GCTACTGTAAT G	TTTTTGCACTTTGCAACAATTTAATAATTTATC/G/AJCAITACAGTAGCATCACACCAGCAGTCAAT AATGCCACTTTAGGCAAAAGTCTTTCAGTATTTCTGTACACATCTGTAAACAAGAACCCCATACATT GGTAAATTCATTTCT
EST27662 4	51 C T C TCCAGTCTTG C	TTATGGAATG GCTTATGTAAC C	ATCTTAAAGGACCATTAGAAAAGGCCAGTCACATTTCTGTCTCCAGTCTTG/C/JAGGTTACATAAG CCATTTCCATAAATCTATAGCCTTCTTCTTAGAGTAACACACACTCTTGTITAGGAATGTTT
EST27788 3	100 A G ---	---	ATTTTATTAGGCGGTACAATTCCTCAAGGTGGTAAGGGTGAAGGAAAGGCGAAGGCGCAAAATACAT TATTGAGCTGAAAACAAC TTTACATTCAAGGAC/A/GJGCTTCCAGACAAGCCATGTAGAACCAGCAT GCCTTGGGACTGTGTGGAT
EST27828 4	58 G A AGAAGTCATC AGAACCCAC C	GTGCAGAGAGG TACTCCAAGTA C	TCTTCTAAAAC TTTCTCTGTGTGATCCCAAGTGAAGTCAAGTCAAGAACCCAC/G/AJGTACTT GGAGTACCTCTCTGCAACCAAGATAGCTGGCTGATTTCTGCTCAGTCACAATTTTACTTGAA
WI-18369	58 G A ACAATC	TCAAGAAGGCC TTATCCATTT	TAAAAATTTGAGATACATTTCCCAATGTAAACAATAAATTTCAATCTGTACACAATC/G/AJAAATG GATAAGGCTTCTTGACAAAATTTCTGCCACCTCCGTTTAAAGCATCAGAACCTCAATCTTATCTC
EST28036 4	37 T C ---	---	TCCCGCTTCCAAAAGCTTTATTGGCAATATGCTCTA/T/CJAAAAGAAATGATCAATCCTGTTGCCTCT AAGTCAATGGAATGAAGAGCTGTGTCCAGGGACACACCACCGCGTGTGAAAGGAGACTGCTGTGTG TCCACCTCTTATTCATAG

EST28483 7	31 T A	GGAGTAAAG GTGTTCTTCT TTAAA	TTTCTCGCATT TATTTTATAC CA	CATTTGGAGTAAAGGTGTTCTTCTTTAAAT/AJATGGTATAAAATAAATGCGAGAAACATTAAC GGAGAAATGTACAGACAACAGACGAAAGACATGAGTTGTTCTGACTGTGACACATTTGGTGAAA
WI-17724	50 T C	TGGGCCCCC TGTC	TGGGTTGGCAG TGTC	AGAAATTGGTCTAGTAATCGTTACGAAATTCGGTGATGGGCCCTCCCTGTCT/CJGGACACTGCCAACCC CACAGCTGGAGGGGCACTTAAGGCACGTCATTTTGTGATTAGA
WI-17730b	68 T C	---	---	TGAGCCCTGGGGAGAAAGACCACAGAAAGTGAAGTGCTATTAGTTACATCATACCAAGTGTACATACTG TT/CJACATGATTTATGGCTGTTGATGTTGACCTCAATAACCTGGCTGATGTAGTATGTGTCA
WI-17730a	39 A C	GACCACAGAA GTGAAGTGCT ATT	TCAACAGCCAT AAATCATGTG	TGAGCCCTGGGGAGAAAGACCACAGAAAGTGAAGTGCTATT/A/CJGTTACATCATACCAAGTGTACATA CTGTTACATGATTTATGGCTGTTGATGTTGACCTCAATAACCTGGCTGATGTAGTATGTGTCA
EST29041 5b	53 G A	GGAACAAACA CATTAAAGCAT CA	GGTATTGTTGA TTTGAGGAGTT AGC	TACTCAGAAATGTGAGTTCATGAGGAACAACACACATTAAAGCATCAATTGTCACT[G/A]GCTAACTCCT CAAATCAACAATACCCCTTTATTTTAGCCATGAAAAAC
EST29128 4	58 A G	---	---	CTTTTAGAAGGACACCAGTCTTTGAGACTTAGGGCTACCCCTATTCACAGCAGGTGCCJ[G/J]TATTT TCACCTGGTTACGTCTGTAAAGGACCGTTTCCAAATGAGGTTACAGTACAGGTTCTGAGCAGACATGA GTTTTGCTGGGGACACT
EST29912 3	103 C T	TCTGCCAGCTT ACAGGCT	GCGTAAAGTGTG TCATTCTTCTG T	ATTTATTAGGTATCTGCTGTTGGGGTGGGGAGATTGTTGAGATACTGCAACAGACACAAAA AGCAAAGAAAGAAACATTTCTGCCAGCTTACAGGCT[C/T]ACAGAAAGAATGAGACACCTTACGCATG GCCATGATACACAGCAGTGA
EST29936 8	121 G C	---	---	TATTTGGTATGCTTAGGGAAGATTCTGATTTAGAGATATTAAATCTTTAAAGTTAACTCACCATGAAA TTTAAACCTTCTGTACTGGCTTCACTGATGAGGCAGTAACTACATAGGGATAAA[G/C]JAGCTCAGTA TCTGGAATCATGCTTCTCG
EST30223 2	99 A G	---	---	AAATAATACATCATGGGAATGGGATATCCATCCCTCAAGCATTTATTTCTTTGAGTTACAAGCAA TCCAAATTACACTCTAAGTTATTTTAAATATTC[C/A]GJGGAATTTAATTTCTTCTAGTTCAATCTTGGGA GG
WI-16260b	86 G A	---	---	CTTTTCCATTGGTATTAAACCTGTAGAGGTTCTTTGTGAGGTGGATTCAAGAAGAAAGAACCCAGA GTTTCACAATATAGGTAGC[G/A]ATAACCAGGCTCACITTTCCCTTCCGTGAGAACTTCGTGGGAC
WI-16260a	59 G T	TGAGGTGGATT CAAGAAGAAA A	CTACCTATATT GTGAAACTCTG GGT	CTTTTCCATTGGTATTAAACCTGTAGAGGTTCTTTGTGAGGTGGATTCAAGAAGAAAGAACCCAGA AGAGTTTCACAATATAGGTAGCGATAACCAGGTTCTACCTTTCCCTTCCGTGAGAACTTCGTGGGAC
WI-17835	30 G A	ACAGGAAATA TTGTGCTTTCT TG	TGGGGTATAGG AAACAGGC	AAGAGAAACAGGAAATATTGTGCTTTCTT[G/A]GCCTGTTTCTTATACCCCAATATCATAAGAAAT GTTGTGCTTCTATATGTTGAGCTTCAAAATCTTTTGCTTAATCAATCCAAATGAATTACCTGAAT TTCTCCTCTTGTCAAAA

EST31951 4	87 C T	GGGTGTCCAG CCAACA	CCCACCAAAAT CACCTCC	ACAGCCATTTATTATGTTTACTTTGGTAATATCAGAGACTGAACAATTTTCACTCTTTAGCAATGACA TCGGGTTGCCAGCCAACA[C/T]GGAGGTGATTTTGGTGGGAATTCATTACACAATTTATCT
EST31968 8b	95 T G ---		---	CGAATTTGTCTCTCTAATTTTGTGATCTAGTAATCTAAAAGATTTGGGGGCGGGTTACTATAAGT GCAATTTTATAATGGGGATTTTCTGCTT[G/A]ACTGCCCACTGATTCTTACATGGGAAAGGTGCAAAAG ACAGTGGTACTGCTCCC
EST31968 8a	75 T C T	GCGGGTTACTA TAAGTGCAATTT	TGTAAGAATCA GTGGGCAGTT	CGAATTTGTCTCTCTAATTTTGTGATCTAGTAATCTAAAAGATTTGGGGGCGGGTTACTATAAGT GCAATTTT[G/A]ATAATGGGATTTTCTGCTTAACGTGCCCACTGATTCTTACATGGGAAAGGTGCAAAAG ACAGTGGTACTGCTCCC
EST32063 2	103 C T ---		---	TCCATGGATGAACAGACGCTACCATGCCACATCCCCACTTCCCTCCGACCAGATGTCGTGGCCAGAGC TGGCTTCCCCCTTCCAGACCTAGCTGGCTTTGTAGT[C/T]GTTCAAGGCCCAATTGAAATAGCAAAACGCAC AGTCATGTAGCACTCGG
WI-16303	65 A G ---		---	AAGGCTTTCCAAAGCATTCAAAGGCACTTGGGTGTTGTGCTCTAAAGTTTCTGGTCACTGCGAGCCCC[A/G] JTCTGTAATTAGGGAGCACCCCAAGCCCCAGTAACAATATGGTCTTGCGAG
WI-17800	29 C G	GGGAGCACAA GAGAACTCA	TTTCTACAAT TAATCCCCAGTC TT	TGGACATGGGAGCACAAAGAGAAACTCACT[C/G]AAGACTGGGATTAATTTAGGAAATATTTACACAG TTTCCACAAGTCAGAAGAGCTAATCCCAACCCTCTGTATCTGGAACATACACTGCTGCCATTTTCTGCG CCATGAAGGGGAAATACCC
WI-17857	34 T G C	CCTAAAGTCTG GGATGACTTTC	TTGGCTTAGGT TCTACTTGATG T	AAACTGTCATTCCTAAAGTCTGGGATGACTTTCC[T/G]ATTCTACATCAAGTAGAACCTAAGCCAAT TCAGAAATCAGAAATCCCTTTTGTCCATCAAAATCCAGCTAAGCTCAAGCTGAATTAATGTTCAATCT
WI-17860	121 T A	TTTGCCAGCAA AGCAAATA	ACTAAGGAGC AGTCAGTCGG	GTATCTGATGTAGTTAACCATGGCCTGTCATGATTATATTGCTATAAGGAAGGGAACAAAATCTTTA TAGTGTCCAAAGATAAATTAATTTCTTGGTTTAAATCTTTGCCAGCAAAAGCAAATA[T/A]CCGACTGAC TGCTCCTTAGTCTGTGATC
WI-17866	43 A T	TTTATAGCCT ACTTCTCAA	CCGTTGTCACT AATCACACAA A	CAGCAACCTTTTTTTTGTATAGCCTACTTCTCAAAAATTTGT[T/A]TTTGTGATTAGTGACAACG GGGGAATCTACAATGCTCACATCACAGTAAACTACCA
EST33301 4c	80 G A ---		---	GAAAAAAAAGTCAAAATGTTTCCCTTTATGGGTGATGCCACCATGATTGCCCTCACACAAGCATGATC AATGCCACGAGA[G/A]ACTGGATGCCAAAAGAGTATGG
EST33301 4b	63 G A ---		---	GAAAAAAAAGTCAAAATGTTTCCCTTTATGGGTGATGCCACCATGATTGCCCTCACACAAGCAT[G/A] ATCAATCGCCACGAGAGACTGGATGCCAAAAGAGTATGG
EST33460 1	44 G A CA	AGCGTGGTTTT CAATACTAAA	CTGTATTATT GTTAAATATTT GCATTGTT	CTATCCAAAGATATTTATTGCAGCGTGGTTTTCAATACTAAACA[G/A]TGTAAACAATGCAAAATATT TAACAATAATACAGTGATTAAATAAGCCATGGCATATCCAGTTGATGTAATACITTTGCAA

WI-17904	50	A G A C A C	AAAGCATGAC AATAAAATGA	CGCTTATGTTA ATAGTAATTCC OG	CAAGTGAATATTGATACATGGCTGACAAAGCATGACAATAAAATGAACAC[A/G]TACGGGAATTAC TATTAACATAAGCGATAACATCAAAACATCTGGTAAATGCGAGTTAAACAAACAAACACAAATGA
EST34149 5	69	A G A T	TGCCAAATAC TCAAGTGTGA	AACTACTAGCG AGAACAACTA ATAAAATC	GTTTTCTTTGAGTGACACAAGCTTGTTCAATTTTGAGAAAATGTGTGCCAAATACTCAAGTGTGAA T[A/G]GATTTTATTAGTTGTTCTCGCTAGTAGTTTGGTATTCTATGAAAAAAGCAGCTAGTTTCAGC TTACAAATCACACAAGT
EST34343 8	95	C A ---		---	TGGGAAAACATAAGTTAACTCAAGAAATATATCCAGTCTTTATGTTACTAAAACATTTGTAATAGTGT TTTTATCAATGATGCCGAGGTCACTGCT[C/A]TACAAAGATTAAAGAACTTACCATCAAAACACTTC CAGTGCATCAA
WI-17982	98	C T C C T A A A A G C	GGACCATATG ATATATAACT	CAGAAATTATG TGATAATAACT CCTCC	GGTACACAATTTTAAATGGAGGAACACACAGGTATGTTGAAAGAACATCAGTACAGCTGGAGACAGG GAGGGACCATATGATATATAACTCCTAAAGC[C/T]GGAAGGAGTTATTATCACATAAATTTCTGGGC GCTACAGAAGTTTTTCATCA
WI-17993	118	A C ---		---	CTCAGTAACTCCGGTGTATAATCTGCCATTTATTGATTTTATGATATAAAACAACCTCTCATTTGTGA AAAACAGCTAAGGGTGACATCTCCAGACCCCAACCAGTGTCCCTGTAATGT[A/C]CTGCTGAGAGTCC ACATTTTGGAATCCAAT
WI-17996	84	A G A G G G A A C A G	GTAGAGCGGA	AGGCACATGGG CAGC	CCCATCCAGAAACCCAGTGTGATGGTGGAAGCAGCATGAAACAACATCTCCCAGGCCTCGGAGT AGAGGCGAAGGGAACAG[A/G]GCTGCCCATGTGCCCTGCTCTAAAGACGCCACCCCTCAGGTTGATGT CACCTGTGGGAGACCGGGT
WI-17136	33	C G ---		---	ATTCCTTTATAAAAACACCAGTGTCCCTAAAATGT[C/G]ATTCAACATATATGCACACCTTCGATGTAT AGGACACTGATCAAAAAGACAGAGAAATGTGTCCT
WI-18041	24	A C ---		---	GCCACTGAAAAAAGGTGCTCTCC[A/C]GTTTCTAACTCCCTGGACTCCCTCATTTGGAACCTGAAGCTC ACAGATGTTTCAGCTGGACTAGTTTAGACTTTGCTGTATTTTAAAGGCAGTGTGATGCTCCAGGAT TCAAATACTTAATCA
EST35164 8a	57	A G C C C	CACAGCCCTGC	CCCTCTGGATT CTGAATCTCAA	TTGAACCAAGGCCCTAACAGATGACTCAGCAGGGCCCTTCAAGCAGACGCCCTGCCCC[C/A/G]TCTGA GATTCAGAATCCAGAGGGTGCTCAGTCCCTGGTTAGGTGCTTCTGTGACATTTCCCTTTG
WI-18052b	67	A G ---		---	AGCGAATGAAAATGCTACATAGGCTCCCTGAGTCTTTCATGTACGAATCTTGGTTACACATCTTAGI A/GJACAGCAGAGCTGCCTGAGGGAGGGTGTGTTAATGTCGTATGCATGCTCAGCAGAGTGTGGC ATGGCCCATCCATGCTTT
WI-18052a	50	T C A T C	CCTGAGTCTTT TCATGTACGA	CTCAGGCAGCT CTGCTGT	AGCGAATGAAAATGCTACATAGGCTCCCTGAGTCTTTCATGTACGAATCTTTCATGTACACATCTT AGAACAGCAGAGCTGCCTGAGGGAGGGTGTGTTAATGTCGTATGCATGCTCAGCAGAGTGTGGC ATGGCCCATCCATGCTTT
WI-18054	46	G A G A T A A A A	GGGAGTGGGG	CGTCACCCTGC TTCCA	CTGTTGTGCTGAGAACAGAAAGGGTCAAGGAGTGGGGAGTAAAA[G/A]TGGAAAGCAGGGTGACG CATGCAGGAGTCCAGACAAAAGACGGGTGATTTTGCTCAGGTTGGTAGCAACAGAGGTAATG

WI-18064	54 G A A G A	GTAGTGCTA AGCTGTATTTC	CCAGTGGTATG ATTGTGACATT C	CAGCTGCCAATCATCTCTCAACCCCTGTGGTAGCTGCTAAGCTGTATTTTCAGAG/A/GAATGTCAC AATCATACCACCTGGGAGAAAGAGTAAGACACAGTGCTTATTAGTGCCAACTGGGGTACCTGGGAG GCAGAAA
EST35347 2	97 T C A A	GCATAAAATT TTCCAGTTGGT	CCCTGGGCACC TGCT	TTTAGCACCATTCTTAGTGAGCAGGATTCTTGATCATGGGGTGAATTTTGTGTATCTGGGCTTCAT GGGATGCATAAAATTTCCAGTTGGTAAGT/C/JAGCAGGTGCCGAGGGTCTGGATCAGAAAAAAGG CAGGCA
WI-18070	28 A C GTGTAT	AACCCACTAC TTACTCAGAGT	AAAACATAA AGAACTGGA GGTTTT	AAACCCACTACTTACTCAGAGTGTGTAT/C/JATATTAAACACATGAAAGATATAATCTTAGAAAAA ACCTCCAGTTCTTATTAGTTTGATAATTTCTGTACTCAGAAGCATTTTAGTTGCAAAGGATATAA
WI-18080c	80 C T ---		---	TGGCATAAAGTTTGCAAAATATCAATATCAAACTAGTCTCTCTTTGTAAATTAATCTACTATGCCGTG TTTGACTTTTAT/C/JTCTTATGTAAATTGAAGCCAAAATGCATGTTAATCCTTCTCCTTTGGTGAT
WI-18080b	65 G A ---		---	TGGCATAAAGTTTGCAAAATATCAATATCAAACTAGTCTCTCTTTGTAAATTAATCTACTATGCC[G/ AJGTTTTGACTTTTATCTCTTATGTAAATTGAAGCCAAAATGCATGTTAATCCTTCTCCTTTGGTGAT
WI-18080a	41 T C AGTCTCTC	GCAATATATCA ATATCAAACT	CAATTTACATA AGAGATAAAA GTCAAACA	TGGCATAAAGTTTGCAAAATATCAATATCAAACTAGTCTCTCT/C/JTTGTAAATTAATCTACTATGC CGTGTGTGACTTTTATCTCTTATGTAAATTGAAGCCAAAATGCATGTTAATCCTTCTCCTTTGGTGAT GTGGGCATCCTATAAAGCAGCCATGTGTTGAACAAATGATATGCACAGAAAGCATCTT[C/G/A] TGGCTTTGTACACGGGTTTTCTTCAAGAGGAAGTAGTACGCCCCCAGCTTCTGCAGTCTAGC TTAGGAGAGGGTGTGAA
WI-18086	63 G A ---		---	AACTACATAGTATGGTGCCTGGCTTAGAATCAATGGGTAAAGCCCTTAGTGTACCTTTGGTATCC TTC[C/J]TTTGGTATGAAAGACAGACCTCTGCTGGAGGACTCATTAACAATGTAAAGAAAGGGGTGAG TCAGT
WI-18115b	71 C T ---		---	AACTACATAGTATGGTGCCTGGCTTAGAATCAATGGGTAAAGCCCTTAGTGTACCTTTGGTATCC TTC[C/J]TTTGGTATGAAAGACAGACCTCTGCTGGAGGACTCATTAACAATGTAAAGAAAGGGGTGAG TCAGT
WI-18115a	70 C T TT	TTAGTGTACCT TTGGTATCCC	AGAGGTCTGTC TTTCATACCAA A	AACTACATAGTATGGTGCCTGGCTTAGAATCAATGGGTAAAGCCCTTAGTGTACCTTTGGTATCC TTC[C/J]TTTGGTATGAAAGACAGACCTCTGCTGGAGGACTCATTAACAATGTAAAGAAAGGGGTGAG TCAGT
WI-18136	78 A G ---		---	TTTTGAGAAGCACTCTGTAAGGCAAGGATGCATTCAAAAATGGCTTTGAGGATTAACTTCTCTTTA GGTAAATTTGC[A/G]TAAGAACAATAAAAGCATTTTAAAGTCCACTGCCGCTTAGAAACT
WI-18169	115 A G GAAGCTC	CCATCTTTCCG	GAGTTCTGCTT GTGCTCCA	GGCAAAATATTTTACATCACACCTGGAATCTGCCCAAGTCTTCCACTATGAAGGCAATCGTAGAG TGTGCAGGAGGAAAGGTGTATCCAAAGCAGCCATCTTCCGGAAGCTC[A/G]TGGAGCACAAAGCAGA ACTCGGTGGGTAGAGTGG
WI-18190b	26 G A ---		---	TGAAAGAAAGTCGACACAGCGGACACT[G/A]TCATAAGTGGAAACAAAGGATGAAGCTAATCATGGAG GCAAGCTCCCTGGAGAGACAGGGACAAAATCAAGAATGAGCTGGAGACATTAACTCTGGCGA



WI-18190	62	G A ---	---	---	TGAAAGAGTCGACACAGCGGACACTGTCTAAGTGAACAAAAGGATGAAGCTAATCATGGA[G/A] GCAAGCTCCCTGGAGAGACAGGGACAAAATCAAGAATGAGCTGGAGACATTAATCCTGGCGA
WI-18181	100	A C CAGATC	CGTTTACCAT TTGTTAAGCTT TTG	AAATATATAC AACACTCCCTT	GACAGTGAACAACTTGAACACACAAATACAACAAAACATTAGGAACAAGAAATGTGTAAATCCAA TGTTGAAAAATATATACAACACTCCCTTCAGATC[A/C]CAAAAAGCTTAACAAATGGTAAACGTA TGTTCTTGAAC
WI-18215	78	G A CTGCCCTC	AGCAGAGTTC CCTCCCTCTCT CCCC	AGCAGAGTTC CTGCCCTC	ATTACATACAAGCAATTCCTGAGTACAAACTAGGGACAGGTATTTACAAAAACAAATAGAGCAGA GTTCTGCCCTC[G/A]GTGTGGGGGGAGAGAGGGGATTGAGCAATTTGGTGGAGTATGTTAATT CCCTCAAGTTAATTCCCTC
WI-18232	60	T A A A	AAATAAAGGT TTTCAGGGGT C	TGGTGTGATT GTGATACACTT	CATTTCCGAAAATCTGATAGTTAAATATCCCGTCTGGTGTGATTGTGATACACTTAAGT[A/GAA CCCTCGAAAACCTTTATTTGAAATTGAAGTTTTGCTCAGAAACTGGGCAGAACTTTTCACACTTCG AC
WI-17892	76	T C A C A	CACAGAAGTG AATAGACTAGT GAGACA	GGAAAACCTG AGTTTGAGATC	TTTAAAAATGCTTAGATTTTCCCTCAGTATTTATCAATAGTGTGAAGCTGGAACACTTGAGTTTGAG ATCACAAT[A/C]CTGTCTCACTAGTCTATTCACTTCTGTGGCATTTCGGCAGAAGTGGC
WI-18242	30	G A AATCGTAACA	GCTAACACTTC TACTGTAACAG CTTTC	CCCCAAATGTT AATCGTAACA	AATATCCCCAAATGTTAATCGTAACATACT[G/A]GAAAGCTGTTACAGTAGAAGTGTAGCAAAAAT TGGATGCCACAACCTTATCTCACCACTCCCTTCAAGCAAGTGAAGGTCAGAATGTTCTTGCCTATATC TGCAAAAGATCGAACAAG
WI-18266c	119	C T ---	---	---	GCATCAGACATCACCACTCCTGAAAAAAACCTTCTACAAGAAATTGAAAAGTGTGCAGGACCTAATA CTGAAATAGGAAATATGGACTATCTTCAAACCTGCACAAATGATGCATGAATC[C/T]ACATTTGAGAC CCGCAACTCCGAGGTACCT
WI-18266b	124	T C ---	---	---	GCATCAGACATCACCACTCCTGAAAAAAACCTTCTACAAGAAATTGAAAAGTGTGCAGGACCTAATA CTGAAATAGGAAATATGGACTATCTTCAAACCTGCACAAATGATGCATGAATCCACAT[C/T]TGAGAC CCGCAACTCCGAGGTACCT
WI-18266a	97	C T TTCAAA	TTTGTGCA	AAATAGGAAA TATGGACTATC	GCATCAGACATCACCACTCCTGAAAAAAACCTTCTACAAGAAATTGAAAAGTGTGCAGGACCTAATA CTGAAATAGGAAATATGGACTATCTTCAA[C/T]TGACAAATGATGCATGAATCCACATTTGAGAC CCGCAACTCCGAGGTACCT
WI-18312	73	A G A A	GGAGAAAAGG GAGCAGAAGA	GCTGTCAGCTA TTGTTATTCA	CTGAGCCTCTTGGATATGTGGTTAGTGTCTATCATTATTTTGGAAAGCTGTCAGCTATTGTTATTTT AAAT[A/G]TATCTCTGCTCCCTTTTCTCCTTTTCTGGGATTCCTCATCTGCTGTTATA
WI-18330b	66	A G ---	---	---	AAACATCTACAGCTGCTTAGGCCATCCTGTGAAGAAATCAGGATAAGAGCTGAGGAACAAGAGG A/GTATGTAGGCAGTGAGTCAGGACTATGCAAAACCATAAAAAAGAACATAATTTTTTTTGTGAT TCACA

WI-18330a	49 G A A A G A	TCCTGTAAGA AATCAGGGAT	AGTCTGACTC ACTGCCTACA	AAACATCTACAGCTGTCTTAGGCCATCCTGTAGAAATCAGGGATAAGA[G/A]CTGAGGAACAAGA GGGATATGTAGGCAGTGAGTCAGGACTATGCAAAACCATAAATAAAGAACATAATTTTTTTGTTGAT TCACA
EST37564 5	85 T C A G A	AAATTCAAGC CATCTACAAA	CTATGGAGGCC TCAATGAGA	AAATTAGTAGCCATAACAGGCTGGAATTGCTGGTTAGAATACTGCATGTTATTTAAGCTAAATTC AAGCCATCTACAAAAGATT[C]TCTCATTTAGGCTCCATAGGCTGCAAAACACATCAAAAGGCATTAC TGTAAGGAGGAGGACTGAG
WI-18327	104 G A T T	AACAGCTTT CGTTAGGCTAG	CGCATACAATG GCTCAGC	CAAAAGGATTTTATTACCTACAACAAGTAAGGAGGACAGCTGGGCAGTTTCCCAAAGCAGTACCTC CCAAACAATGGTGAAACACAGCTTCGTTAGGCTAGTT[G/A]GCTGAGGCCATTGTATCGGAGGCAGA GT
EST37624 6b	102 G A ---		---	GTGGCAAGAGCAGCTAAAACACACTCATTTTGCATGAACCTCCAAATACGAACAGTGCACGCTGATGG CCTGGAGTCTCTGCCGTGCTTGGCTCTCTGGACG[G/A]TTCATTCTACATGGCTGCTGCTTTGCGTCC TCTGACCTCCCCATTCC
EST37624 6a	58 C T ---		---	GTGGCAAGAGCAGCTAAAACACACTCATTTTGCATGAACCTCCAAATACGAACAGTGC[A/T]GCTGA TGGCTGAGTCTCTGCCGTGCTTGGCTCTCTGGACGG[G/A]TTCATTCTACATGGCTGCTGCTTTGCGTCC TCTGACCTCCCCATTCC
WI-18357	89 C G GCATCAA	CCAGCCCTTA GCATCAA	AAGACTCAA AGACTGAAGAT GA	AATGTTTTAAAGTCTACCGTGTGAGGTGGCCATGAAGCCCAAGCCCATGGAGAGACATTTTCAGA TAATCCAGCCCTTAGCATCAA[C/G]TCATCTTCAGTCTTTGAGTCTTCCAGCCCAAGGTCCTTCCAGCTT
WI-18012g	117 A G ---		---	GTGGACCAGAGACAAAGCC TTTTATCTGGTCAGCTCCTTCTTAATGGCCTGAAGGTCATCTCCTTTCAACTTTCCAGACTTGAAG ATCCCCGCTGTCCACTCTTAGAAATTGAAGCCACTTTTGCCCCCTTCGTGA[G/G]GTGTTTCCCTGATACA CGCTGAGGTTTCGAGGG
WI-18012f	113 G A ---		---	TTTTATCTGGTCAGCTCCTTCTTAATGGCCTGAAGGTCATCTCCTTTCAACTTTCCAGACTTGAAG ATCCCCGCTGTCCACTCTTAGAAATTGAAGCCACTTTTGCCCCCTTC[G/A]TGAAGTGTTCCTGATACA CGCTGAGGTTTCGAGGG
WI-18012e	112 C T CCCTT	GCCACTTTTGC CCCTT	TCAGCGTGTAT CAGGAAACA	TTTTATCTGGTCAGCTCCTTCTTAATGGCCTGAAGGTCATCTCCTTTCAACTTTCCAGACTTGAAG ATCCCCGCTGTCCACTCTTAGAAATTGAAGCCACTTTTGCCCCCTTC[G/A]TGAAGTGTTCCTGATACA CGCTGAGGTTTCGAGGG
WI-18012b	46 T C ---		---	TTTTATCTGGTCAGCTCCTTCTTAATGGCCTGAAGGTCATCTCCTTTCAACTTTCCAGACTTGAAG AGATCCCCGCTGTCCACTCTTAGAAATTGAAGCCACTTTTGCCCCCTTCGTGAAGTGTTCCTGATACAC GCTGAGGTTTCGAGGG
EST38390 4	75 A G CTCTGCATTG	GCAAAAAGGA CTGATTATAA	GCTAAAGTCAG CTGATTATAA ACTTAA	CATATCATAGCCAGATCTACAACCCAGAGTAATCCCATGGTTATGTTACATGGCAAAAAGGACTC TGCATTGT[G/A]TTAAGTTTATTATCAGCTGACTTTAGCATTTGGGAGATTATTCTGGAT

EST38512 7	91 T G	TGACGATGCC AATACCTCG	CACTGCACTCT GGGAAGC	TAATAAAAACCTGACCCCAATTGGTAAACTGTCTGGACTGAGAGAAACAATGAAAAATCTGTAAAT ACCTGATGACGATGCCAATACCTTCGT/G/GCTTCCCAGAGTGCGATGAACGTTATAGCC
EST38519 0	24 C T T	CCTGCACCTCC TAAAAGATCT	TCGTGTAGGAC TTGGGGA	CCTGCACCTCCTAAAGATCTTTTC/T/TTCCOCCAAGTCTAACAGAATGGTATATTCCTCTGGAAAA AGATGAACGTCATCAATGGATTGTGCTGCTCTCGTTTCAGCTTTGATTTTTTTTGCTCTTGAGAACCTTG TCCTCCCTGCTGATTT
EST38575 1	66 T C A A	GAACATCCCA TGTTCTGTTT	AGGGAAGGTA GTATAACACAT AAGAGA	AGTGGTCAATGTAAAACTAATGGGGACACCAAGCCCTCAGGAAGAACATCCCATGTTCTGTTTAA T/C/TTCTCTTATGTGTATACACTACCTTCCCTTTCTCTTTCTTATACACATAGATTTTCCTTAATTGCAGC CCA
EST38616 9	101 C G C T T C	CCTGCTCCGCC CTTC	GAGGAATGGAT GGTGGC	CCATCTAGGCAGGCTACCTGAGCTCTCTGTGCTCCAGAGTGGGTGCTCACGCCCGGGCCCCCGTGG AGTCTCCGGGGCCCCGCCCTGCTCGGCCCTTC/G/GGCCACCATCCATTCTCTCCAGGGG
EST38652 8	59 T C C A T T T C A A	TCGAACTGGG CATTTCAA	TTGCAAAAATG AAGGAAAAA	TATAGTAGGTACTTTCTTCTGCTGCAGCAGGAATTATTAGTCTGAACTGGGCATTTCAA/T/C/CGCGTG GTATTTTTTCTTTTCATTTTGGCAAGTAAAAAATCAT
EST38654 5	42 T C G T T T T A C A	AATGGTCATTT TAATATATCA	CAGTGAATGGTC CTTAATCTTCT ATC	CTCAAGCTGAGAATGGTCATTTTAAATATATCAGTTTTTACATA/T/C/JAGATAGAAGATTAAGGACCAT CACTGAGGTCACATAGCTCAGAGGCAGAGTTAAGATTTGGACCCAGGCGGTTGGTTCCAGCATATA GGATCCTCACTCACCTGGGACAGCCTGAGAAAGGGACATCCACCAAGACCTACTGATCTGGAGTCCCA CGTTCCCA/G/AGAGGCCAGCGGATGTGTGCCCTCTCTCTCCCAACTCATCTTCAGGAACACGAGG ATTCTTGCTTTCTGAAA
EST38707 9	75 A G ---		---	TGACCTTGATTTCTCACTAGAGGGGAGAAGAAATCACCTACCTTTTGGATGCCCTCCCACTCTACTGT CTCCCTGAGGTGATATGG/A/G/CTTAAGTCCACGATGGTGACCTAACTCAGTTTAAATTTCTTGCC TAGCAGCACCC
EST38759 2	86 A G G G T A T A T G G	TGCTCCCTGA GGTGATAGG	TCACCATCGTG GACTTAAGG	GACTCTCAACCAAGAGAAAAATCAATAGGAGAGGATTGGCT/A/JTTGAATTCAGAGCAAAAGCCCT CTTACTGAGAGGTGAGCCCCCAGCCCCCTCCAAATGCCCTTTTCATGAGTTAGGATCTCTAAGTGGTAC AAACAAACCAACATGGTGG
EST38775 1	40 T A C	AATCAATAGG AGAGGATTGG	GGCTTTGCTCT GAATTCAAA	CACCCCATATTTGACCAAGGATGAAGCCTAGCCATGCTCTTCACTTATGTGTGTTTCAACAAG TGTTTATGAGAACCCATTACACA/C/A/JAAAGCATGTGCCAGTCAGCAGATTCTGTAATAA
EST38815 4	T G T T A T G A G A A C C C A T T A C A	TGTTATGAGA ACCCATTACA	GCTGACTGGCA CATGCTTT	TCCTTACTGTGCTTACAACCTTTCTCTCCAAGTTTCGGGTGGTTCCCATATTGTTATTGTTATTATTA TTCAACACGAGTAAAAAGAAACTCATGAC/C/T/TTCTCCTTTGGACTCGCTCTCTCCCCAATCTCGAT ACCGACTGCACTGTTG
EST38858 4	98 C T T G A C	CACGAGTAAA AAGAAACTCA	GGAGCGAGTCC AAGGAGAA	CCTTAATGGATTTTACAGCTCATCTGAGTCTCTGCTGTGTTCTCTGAGGAGCTGTAGAATTTGTGTCG ATGCT/C/CTGTGTCTCCGTCCTTCCCCAAATGAGCACATATGCAGGGCAGGCAAGAGCATGCTGGA TTTGTCTTAGTTGTTAA
EST38865 2	72 T C T G T G T G A T G C	GCTGTAGAATT AGGACACAG	GGAAGGACGG AGGACACAG	

EST38878 9	47 T C	AAACATCATT ACTAGCCTAG ATCCTAA	CCTTCAATAAA TCTCATGTCCT CA	CCAATGAGAACCAAGTAATTAACATCATTTACTAGCCTAGATCCTAA[T/C]TGAGGACATGAGATTT ATTGAAGGGAAATCCTCAATTAATATGAACATTTCTTGAGAAATGGGAAATTTGAAACATTCCTCC TTATCAATGTCACTCACACATTCITTAATTTTATTTGTTTTCACTTTCTCAAAATATCGGATTGTTCG TCATGAGAAATAATGGCTGAGGGAGCTGGCAGCGAGTCTTCTCA[G/C]GCTCCCTGGATAGCTAAAT TTA
EST38882 6b	113 G C	---	---	TTATCAATGTCACTCACACATTCITTAATTTTAT[T/C]TTGTTTTCACTTTCTCAAAATATCGGATTGT TGCTCATGAGAAATAATGGCTGAGGGAGCTGGCAGCGAGTCTTCTCAGGCTCCCTGGATAGCTAAAT TA
EST38882 6a	35 T C	TGTCATCTCAC ACATTCITTTAT TTTT	CGATATTTGAG AAAGTGAAAA CAA	TTATCAATGTCACTCACACATTCITTAATTTTAT[T/C]TTGTTTTCACTTTCTCAAAATATCGGATTGT TGCTCATGAGAAATAATGGCTGAGGGAGCTGGCAGCGAGTCTTCTCAGGCTCCCTGGATAGCTAAAT TA
EST38909 5	47 A G	GCACAGCATG GCTAAACG	GGTATTTGTG ATCCCATCTT T	GCACATAACTAATTTTCATTTGTGGATTGCACAGCATGGCTAAACG[A/G]TAAAGATGGGAATCAA CAAATACCATTGAAGATATGGAGCAAGAGAACTCTCACATACTGCTGGAGGAATATAAAT AACTGAATGGCAGTGAAACACTACACATCAAAACCTTAGGGAAATGTGGTTAGTGTGGTACGTTGAG GGAAACTTATAACCTCAC[A/G]CGCTTGTTTCACAAAACACAGCAGACACAGAGATTTTCCAACCTC CAGCAATGACAGGCTAGGG
EST38911 9	85 A G	GTTGAGGGAA ACTTATAACCT CAC	TGTTGTTTTGT GAAACAAGCG	AACTGAATGGCAGTGAAACACTACACATCAAAACCTTAGGGAAATGTGGTTAGTGTGGTACGTTGAG GGAAACTTATAACCTCAC[A/G]CGCTTGTTTCACAAAACACAGCAGACACAGAGATTTTCCAACCTC CAGCAATGACAGGCTAGGG
EST38955 5	30 G C	TGAATCCCTT GGTGG	CACTGCAATCT CACCCC	TAAACATTTCCCATTTGAATTTCCCTTGGTGGG[G/C]GGGGGGGGTGAGATTGCAGTGTCTCAAGATAAA TATCACAAATATATCAAAACCTTCAAAATGTCATGCAATTCACACACTGACATGAGCCACAAACATT CCTTTCACAGGGACTGTAC
EST39002 0	42 G A	GGACCCCTCGG TGACC	CTGGCAGGGAG CCTG	CCCTGCTATGATGCCTGGGCAGATCCCGGACCCCTTCGGTGACC[G/A]CAGGCTCCCTGCCAGGCTTGG CCCTGACCCGGGCTCCCGAGCTCGGCCCTGACTGTGGAGGAGCTGAAATACGCTGACATCCGCAACCT C
EST39004 8	79 T G	GGTGGTAAGG CCTAAGGAAT	ATCTCGGCTGG CGGC	CACGTGGCCCTAAGTTTCCGGGTCCTCCTCAGTCTGGATGGCTGTGTGGAAAAAGCTTGGTGGTAAG GCCTAAGGAATTT/GJAGGGGCAGGGGGCGATGCCGCCAGCGAGATGGTCTGTGAAGCCTGTGGGTC AAAGACCTAACTTCTGGA
WI-16398	90 T C	TCCCTATTATT CCATGATATTT TCA	GAATGGTTTGT GAAAAATATA TTGATAT	AAAGATAATGTTCATCACACGCAACATATAGAAACATAAAAAGAAAAATAAGTATCCACCCTAAAAAT CCCTATTATTCATGATATTTTCA[T/C]JAGCAACTAGTATATATATCAATATATTTTTCACAAACCAT TCAGTTACAC
WI-16403	69 T C	CCITTTGCTC AATTTTAAAC ACT	TAAGGGCTAAT TCCCTATATAA AAAG	GGTTGCTTTTCATGATTTTTCATTTCCATTTCCATCAGGTTTCTGGTCCCTTTGTCTCAATTTTAAACACT[ T/C]CTTTTATATAGGGAATTAGCCCTTAAACTGTGGTACATGCTGCCAAAAATTTCTCCCAAGTT
WI-16406	24 C T	GCITTAATGGC TACAGAAAGA AGG	CCAGAACCCAG ATGTGTTTAAA AA	GCTTTAATGGCTACAGAAAGAAGG[C/T]GGTTTTATTTTCTTTTTTAAACACATCTGGTCTGGCAGC AAGTTATATTATGCATTTAGAGCAATAGGTGCCCTGAA

EST39236 0b	57 C G	TCATCTGAGA ATAAACCTTCCT GTCT	CATTATAGGTA CTGAGTCATAC ATTAAACA	TCCCTTTTATTCATGATTTGTTTCATCTGAGAATAAACCTTCCTGTCTAATTTTCCAAIC/GIACIATGTT TAATGTATGACTCAGTACCTATATGAGACTGGAAATATATTACCTGGCAATGAATGAGGTGTCTC TTT
EST39294 4	63 G T	CCTGAAACAG GGATGCC	GCACAATTAA ACATAGTACCG AGAA	CAAAACAGACCTTTGGTTTGAGCTCACCTGGTGACAGGAGACTCCTACCTGAAACAGGGATGCC(G/T) TTCTCGGTACTATGTTTAAATTGTGCTGAGCCAGCAACCCTCGAGTTACCGGCCCTTTTACCCACGCC AGCTCTGCTTGCTGTCAT
EST39366 2	72 T C	---	---	AGAAAACATTTCTGTCTGATCAGAGGAAGATGTATGTAGAAAAATCAGAAATCTGACTGAATTCCTAAA ATCTATT/CJACACTGAGAGGAAAAATGGAAAAAGAAAATGTTTGCATAAAGCTTTTCCCTGACTCTCA GAGGGTTTCAGA
EST39371 9	86 A G	CATTGGATTA GCGTGAGAGG TT	TGATTTGAGAC ATTTACATTT TT	AAAAGCTGTAGCTGGCAAGTCAAAAGTTTATTTATGTGTGTAATTCOCAGTTGAGCATTTTTTCAT TTGGATTAGCGTGAGAGG(A/G)AAAAATGTGAAATGTCTCAAAATCAAATGCTTCTCTTCTAAAGATTAA GACATTGCCCAACCCCTGC
WI-17177	23 A G	---	---	ACAAAGTGACATATCCAACCAACC(A/G)TCCATCCCCACCTGTGCCCTATTCTTCCCTGTGTTCTTT AGAGCCTTTTCAGCTATTCTCTGTGAAGCAAACTGCAGGAAGGCCCTCCCCCGTACTCTCCCTCCCTGGAA G
EST39428 8	31 C T	GCTCCCCACA ATTTTGATT	GGTCCCTTAG AAGCCACC	AGGTTCCCTGGTTGCTCCCCACAATTTTGATT(C/T)GGTGGCTTCATAAGGGACCCAGGATTCTGCATT TTCTGGGTGGGCTAGGTAATCTGTGCTTTGGTCCACAGAGCACAAITTAAGAAGATCAGGTCT GGCTGTTCG
EST39430 2	45 A C	GGCAGAGGAA TAACTGATGTT	CAGGGGTGGG GTATTG	AATTTAGCAGAAACAAATGAAGTTGGCAGAGGAATAACTGATGTT(C/A/C)CAATACCCCGACCCCTGA CCAGTACCTTTCCCTCAGGCCCCAGGCTCCGGTGGAGGATGTCTGGG
EST39446 7b	117 C T	CTACTGACAT AGGACTTCA	TCCTGGAAAAC TGACATAAACC	AAAGCCCTGTAAACTGAAGCTAGACAACGTCAACTTTGGAAGAAAAATAACAGGAACCTATTTATAT ACGTAAATCACTTTTCATACCTGCCTACTGACATAGGGACTTCAGAGTAATA(C/T)GGTTTATGTCAGT TTTCCAGGATTGTTCTCCC
EST39465 2	80 A G	AATGCAGGAG GGTGGC	CAATCTCGGC CCTCT	ATGGTGTCAATTAGAGGGCCACAGGGGATGGGGAGTAAAAATAACATAAACGAACCTGAACAGAAA TGCAGGAGGTGGC(A/G)AGAGGGGCCGAGATTGGGTGTTTCAGGGCAGAGAGGTGGAAGACCAG
EST39501 0	81 A G	AAAGATTCCT GTAGACATCT	CACCTGCAATT CTGAAGGCT	TGCTTACAACCCATAACCATAGGCCCATGTGTTTCAGACATCTTGACCAGCCCTAAAGATTCTGTAG ACATCTAACATTAG(A/G)TAGCCTTCAGAAATTCGAAGTGCAAGTTCAAGTCAAAACCAATTC
WI-18387b	84 A C	---	---	CACAAATGGGACTGCTGAAGAGTGGACAGTTGGACCTTACTTTGGTGACCCCATACATTGTGGTCA CATGCTTTAGCCATAC(A/C)CATGTGTAACATTGACTATGGAGTCTTGTGAAAGTGTAAATGTGCGGATG GCTATGTAGACATAAAGA

WI-18387a	57 A G	CCTTACTTTGG	GTAAAGCATG	CACAAATGGGACTGCTGAAGAGTGGACAGTTGGACCTTACTTTGGTGACCCCATACAGJTTTGTG
EST40601	78 A G	GGTGGAAACCT	TTCTTGGGAAGA	GTACATGCTTTAGCCATACACATGGTAACATTGACTATGGAGTCTTGTGAAAGTGTAAATGTGCGATG
		AGTGATATCAC	ACACTGTGTA	GCTATGTAGACATAAAGA
EST41935	32 A G	AGTGTATCAC	GCACACCCCTC	TCCCAGGATGGTTTATCCAAAGCTGTGGACGGTGAACATTAAAGACGAAAGAGGTGACTCGCGTGGA
		ATCTTCAGGAT	ACACTGTGTA	ACCTGAAACACAGJGACGCCCTTCTCCAAAGAAGGGCTGTGGGATCAGGCCACTCAAGG
EST43091	28 C T	CAATCTGGTCT	AAAACGTGATTT	TCCATTCAAGTGTATCACATCTTCAGGATAGGTJAGJATAACAGTGTGAAGGGTGTGCTCATTTTCTTC
WI-18420c	108 T C	TTATTTTGGGA	GTAAAAACATG	AGCTGTGAGTAGAGGAGTCTCCCGAGAGTAGCAGTTGTGA
		CA	CTAC	ATGTCATTCTGGTCTTTATTTTGGACA[C/T]GTAGCATGTTTTTAACAAATCAGTTTTTTCATAGGCAA
WI-18420a	38 C T	TTCCATTAAAC	AAATTCTCAGC	CTTTTGAACATCAAAAAGAAATACAATATATTTTCAAAAATTTCTCATCTACTGTAAATTC
		AGGAAGTTTC	ATTGCTATAAG	AGAGAGACAACAAGAAATAGGGAAAATGGGAAGAACAGAGTGAATTAAGGCAAAATCTTGA
		AA	TC	TTTCATAGTACTTCATGGGA
		GAATAAGGGA	CCAAGATTTGC	AGAGAGACAACAAGAAATAGGGAAAATGGGAAGAA[C/T]JAGAGTGAATTAAGGCAAAATCTT
		AAATGGGAAG	TTTAAATTCAC	GGATTTCAGATTCATTAAACAGGAAGTTTCTCAAAAAAATCAAAATGCTTATAGCAATGCTGAGAA
WI-18425b	101 T C	---	---	TTTCATAGTACTTCATGGGA
		CACCCCTGTCCCT	---	AGCTGATCAGCTGTGTTACTGTGTTTATGTGTGCCCCAGGAAAGCCAAAGATCAGACACCCCTGTC
		AGACAGATTTC	CCTCCTGTGT	CTAGACAGATTCAATGCACACAACAACAGGAGGTTCTCAAAAAAATCAAAATGCTTATAGCAATGCTGAGAA
WI-18425	81 A C	A	TGTGTGCA	TAGGGC
		C	---	AGCTGATCAGCTGTGTTACTGTGTTTATGTGTGCCCCAGGAAAGCCAAAGATCAGACACCCCTGTC
WI-18449	129 C T	CTTTTGGCTCT	CTCCCCTGACT	CTAGACAGATTCA[C/T]GCACACAACAACAGGAGGTTGGGGTCAACACGGGGGAGAGCCAAAGAC
		AAGTGGGACT	GTATCCAGA	TAGGGC
		---	---	AAATTGAGGTCGGGGTGAACATAAAAAAGGAAAGGAAAGAGAAAGTAATCAAGGGAGGCCAAAGTG
WI-18457	120 T C	---	---	GGAAAGCTGATTGCTGATCTAACGTGCTGTCCAGTTCTCTTTTGGCTCTAAGTGGGACTA[C/T]TC
		---	---	TGGATACAGTCAGGGGAG
		---	---	ATCGCTTCATTGAAGCCCTGTTAATTTCTCTCAGTCAACTGGTGCCCCCAAGACATTTATTTTATCTTT
WI-18462	39 A G	CCACAATGGC	TTTAGGCTTTG	AAATGTCCAATATCTGCCTGATGCTGTGTTTGTGCACATTTGGGGCCACAGTTCTJAAATAGGCTAAA
		AGAGGTGA	AGATGGTTCT	AGGAGTCCCACCTGCT
WI-18476	60 C T	GGTGGGGTGC	GCACGATGGGA	GGTGTATAGCTGCTGTACACCACAATGGCAGAGGTGAJGJTAGAAACCATCTCAAAGCCTAAAA
		GAGG	GTGACC	TATTTACCATACTCCCTCACAGCAAAAGTTTGCTAATCTCGGGTTTAGGACTCCATTGAG
		---	---	TGAGGACGTGTGACAAGCTCCACAGGGGTGGGGCCGGGCTGAGGTGGGGTGGCGAGG[C/T]GGT
		---	---	CACCTCCATCGTGGCCCTGCCCTCCACTCACCCACACCTGGCCCGAGTCCACGTTGAGGT

WI-18491	109 G A	AACAAATGGT AGGTGGTATT AATACTATT	CGTGTGCATTT TCITGTAATCC	CTAATGAGATGAATACATGGAAGGCGTTTAGCACAGTGCCTTAAACACACAGTAAGTAACCAACAAT GGTAGGTGGTATTAACTACTATTATTAAATCCAGAATGAC[G/A]GGATTACAAGAAAAATGCACA CGT
EST50757 b	79 C T	GAGCTCGAGG CTGCTTCT	ACCTTCACCC GCCC	AGCCCCCTCCACTCCACTCTGCTTCCACAAAAGTCGGCTCCCGAGAGCTCGAGGCTGCTTCTTTTATAT GTGACGGGCC[C/T]GGCGGGTGAAGGGTCAGAGA
WI-17675	103 T C	GGACATTGG ATGGTGACTT	GGGGAACCAAC CAGG	GATCTTGGAAAGCACTAGAAAATAACATCTTCACCAGGTGCTGAAGAAAAAGTGTCTTCGTTTTAAT TGCCAAGCAGGGATGTGGACATTTGGATGGTGACTT[C/C]CTGGGTGTTCCCCATAGATTCAACCAT TGCTCTAATGGTGCTA
WI-16543	67 G T	AGATAAACTA CATTTGGGTT TGG	GATTCATCATTT ACAGGGGACTT	GATCCATTACCTAGGGTAAATTTCTCCTGAATGTCAAACAAAGAGATAAACTACATTTGGTTTTGGT G/TJAAGTCCCTGTATGATGAATCAAGAAATCCTCAAGTCTGCTTCCACCCATTTAATACGTATT TTTGTTAAGGCTGAAGTT
WI-17687	107 C G	GCCAAAAAGG TTGGGAA	TTACTTTTGT CCGACCAGCA	ATCTGAGATGGAAGAGTTTCATCCAAAACCATCTCCCCCTGACCCCAAGTCCATGGAAAAATTGTC TTCCACAAAACCGTCCCTGCTGTCGCAAAAAGTTGGGAA[C/G]TGTGTCGGTACAAAAAGTAATT G
WI-17690b	79 A G	---	---	ACAACATGTGAAAGAAGATATGTTGTCTTTACTCACAGTGGAGGCAATTTTCTAGCTGTGTTGATTT GGCTCCCTAT[G/G]ATTACAGGACCCATAACTCTTGTTCACACTCATCTGCTATGCTGCTG
WI-17690a	63 G A	AGGCATTTTC TAGCTGTGTT	CAAGAGTTATG GGTCTGAATC	ACAACATGTGAAAGAAGATATGTTGTCTTTACTCACAGTGGAGGCAATTTTCTAGCTGTGTT[G/A]A TTTGGCTCCCTATAGATTACAGGACCCATAACTCTTGTTCACACTCATCTGCTATGCTGCTG
EST51717 b	128 C T	GCGGAAGACA GTGAGCTGTT	TTGAGGCAATA ATCCAGCTC	GATCCAACTCTCAGTGTCTAACTCATCATCCAGATTTATTCTGAAGTGAAACCCCTCCGACCCAA TGGCAACATCACCCACTACCTGGTTTCTGGGAGAGGCGGGAAGACAGTGAAGTGTGTT[C/T]GAG CTGGATTATTGCCTCAA
EST51717 a	39 C T	---	---	GATCCAACTCTCAGTGTCTAACTCATCATCCAGATTTATTCTGAAGTGAAACCCCTCCGACCC CAATGGCAACATCACCCACTACCTGGTTTCTGGGAGAGGCGGGAAGACAGTGAAGTGTTCGAG CTGGATTATTGCCTCAA
EST53012	97 C T	TGGTCACTTTG GGGCC	GGCTCTGCCCC GGCC	TTTCCAGGTTGACAGGTTTTATCCACCCCTTCCATCCCTGCCCACCCAGGAGGAGGAGACAG GTGTGCTGGAGTGTGGTCACTTTGGGGCC[C/T]GGCGTGGGAGAGCCCACTGGGTTTACATTCTCTGT GGGCAGGTTGGACAC
EST53349	96 A G	TGTTGAAAGC AGTCACAATG TAC	CATCTGGATAT CTTGTACATT TT	AAACTGCAATAACAAAAACAAAGAGTCCAAAGAGGCTAAAGTCTAAGCTATAATTACACATG AAGTATATGTTGAAAGCAGTCACAAATGTAC[G/A]AAATGTGACAAGATATCCAGATGTTTAA
EST53389	74 A G	GGAGACCTGC AGAAGTTAA CA	GGCCTTTCTAA CAATAAATGCT C	TTTCGAAATGTCTCCATGACTTGACAGACTGAGAGCCAGCCAGCCAGGAGACCTGCAGAACT TAAACAC[G/A]GAGCATTTATTGTTAGAAAGGCAAGTCTTACACTCAAAATAGGTTTTAACAATGAAC ACATTAAAGGGAGATGGCC

EST53477	61 T C ---	CGAGATTTCT TC TTTATTTA TA TTTTCA	C C A A A G A A A A T G G C T T C A G T A A	TTTGAGAGGTTGTGCAAAACTACTGTATTTACAAAAATGGCACAAAAGTGAATTC AACAGTT/CJAA TGCACATGCATAC TTTCAITTCACATCTTCAACAACAAAAGGIATTTCTAACTCTACAGAAGTGAATATT AGCTTCAACGGCAGCTGTT
EST64622	91 T C TA TTTTCA	TG TG TATAGCA CAT ACTTCAGG	A T G G G G T G G T G O O G C	GGGGAGAGGAGGTAGATTGCCAAATTGAGGCATTTTTTTTAAACTCCCCGAGATTTTCTCTTTATTT TATA TTTTCATTTTTTCATCCTAA[T/C]TTACTGAAGCCATTTTCTTTGGTTAACTTTAGA
EST67268	77 C T C			CTCATCTTTATTAATGCATCGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTATAGCACATA CTTCAGGC[C/T]TGGCGCACCAACCCCATAGAGATGGTGAGGAAGTAAC TCTGCTTCTCATTTGAAAAC T GTAGATCCATCGGGGA
a EST78503	26 C T CGAGT	ACGACGCCGG	G C A T T T C C G C G G C A C	GAAATGCAGAACGACGCCCGCGAGT[C/T]GTGGACCTGTACGTGCCGCGGGAATGCTCCGTTAGCA ATCGCATCATCGGTGCCAAGGACCAACGCATCCATCCAGATGAA
EST80253	92 G C ---		---	ATGCATTTATTGGCTCCCAGGGAGTGGGATGCAGGATCAGAGTGACACGCGCAGGGGGCTGGTGTG GGGAGCAAAGCGCCGGCCTGCC[C/G]CGGACCCTGGTTCCCTGAGGACCAACG TGAATGGGGGCC CACTGGAAGATGCTTG
EST91254	73 T G ---		---	TATCTGTAGGGAGAATAACCATGCTTGCTTATGGACTATCCATGGATAAC TGGTTTTTTTGTGTGTG TTGT[T/G]TTTAA TTAAGAATAATATGTGCTCATCATATCAATGCCTTCTCAGTAGAGCCCAG ACCTGG
EST91332	100 T A ---		---	TCCAAACTGAAAGGAGGGTGGGGAACAAACGCATCATATGTAAAGCACTGAGTCCAGCCTGGCTC TTAGTAAGCATTTTAATCACCTTCAAAATAA[T/A]JTG T G A C T T A C G G A A A C A G G T C A C T G A A T A T TATT
b EST91495	58 T C ---		---	CTGACTCAAAAGACACTCCTGAAAGCAGGTCCATCCTGAGCAGCAGCTTGATTACTTT/CJACAAAG TCAGACCTGTTATTAAGACGCAGACTGGCATTTAAATCAGGCTGTGTACACACCATCCTGGGTCTTT GTTCTGGCTCCTATGGTG
EST91921	114 A G ---		---	CTGGCTGAGGATCTCAAAAGACATCCACCACATTTGAATCTTAGGCTGGAGGACATTTTCGTATCTT CAGTCAGGAATAGCACACTTCCTTTTCATGAATAGCAGCTTTTAGGG[A/G]TTATATCATGAGGTACA AATAAAGAGGCCCTCACC
EST92026	56 T C ---		---	ATAGCCAAGATTTGGAAGCAACCCGTGACCATCAACAGATGACTGGATAAA[T/C]GTGGTA CATGTACACTATGGAGTACTATTCAGCCATGAAAAAGTCTAAGATCTTGTCATTAGCAACAACATGG ATGGAAC T T G G G A A C A C T G T
a EST92040	38 C T ---		---	TTTCCATGAGGAATAA TTTGTGTTTATATAAAACCTG[C/T]AGATGAATA TTTTTTTTAAACAGCATG ATTCACAAATGCCAAAAACAATGCAAAATGCCCTTCAACACATGAATGGATTAAACAGACCGTGATAC ATGA
c EST98276	69 T C ---		---	GAGCTTGCTATGTTCCCGAGGATGGTCTTGAGCTCCTGGTTTCAAAACAATCCTCCTTCCTAAGCCTCC [T/C]AAAGTGCCAGGATTATAGGTGTGAGTCACA



EST98276 b	61 A C ---				GAGCTTGCTATGTTCCAGGATGGTCTTGAGCTCCTGGTTTCAACAATCCTCCTCTTA/CJAGC CTCCTAAAGTGCCAGGATTATAGGTGAGTCACA
EST98276 a	22 A C TTTCCAGG	GCTTGTCTATG	AACCAGGAGCT CAAGACCA		GAGCTTGCTATGTTCCAGG/CJTGCTTGAGCTCCTGGTTTCAACAATCCTCCTCCTTAAGC CTCCTAAAGTGCCAGGATTATAGGTGAGTCACA
EST98800	53 A T ---				GCCTCCAGCTGCATGACTCCTAAGCCATCATTTGGAAGATTTGGCTAATTTG/ATTAGTCTTACAA AGGAGTCTAGTTCAACAGGCAAGAGGGGTTTGTTGGGAAGCGCTGCTATCTTTGTTTCAAC TGTAAGCAAGTTCCCTC
J02931	138 G A GTAA	CAGCATTAGTC ACTTTGAAAT	TTGGAATTGGT TGTAAGTACCAT T		AGAGGATAGAATACATGGAAACGCAATGAGTATTTCCGAGCATGAAGACCCCTGGAGTTCAAAAA CTCTTGATATGACCTGTTATTACCATTAGCATTTCTGGTTTGACATCAGCATTAGTCACCTTGAATG TAAC[G/A]AATGGTACTACAACCAATTCGAAGTTTAAATTTTAAACACCATGGCACCTTTTGCACAT ACAATGCTTTAG
L41680	88 G A A	GAGAAATCGA CTACCAGCTG	TTTAGAGCACT TTGCAGGTATT T		GGATCCAAAAACACGGCTGGTTTCAGCATCCACCAATGAAGTGAATAAAGGACGTTTCATG AGAAATCGACTACCAGCTGAT[G/A]AATACCTGCAAGTGCTCAAAAATTAATAATTTTGACTTT AAGGGTCTAGTAAGTGCCACTCCACTAAGAAATACAGTTTGAATGTATAATCAAGTAGTGTACAA GATCCAAACAGTGCACTCA
M15796a	84 C G ATATGTAGA	CAAAATTTGTA CCTCTAAGTAC	TTGGACTTTAT TCTTTAAACAA ATTG		CTTTCTGTCAACCAATTTGTACCTTAAGTACATATGTAGATATTTCTGTAAATAACCTATTT TTTTCTCTATCTCT[C/G]CAATTTGTTAAAGAATAAAGTCCAAAGTCTGATCTGGTCTAGTTAAG CTAGAAGTATTTTGTCTTTAGAAATACTTGATTTTTTATAATACAAAAGGGTCTTGACTCTAAAT GCAGTTT
M20472	103 C T C	GTTGAGTTCTT TTGGACCAAA	ACAATGAACA ACTCTAAAGAC AAAAA		AGAGCCACCTGTGGAAACACTACATCTGCAATATCTTAATCCTACTCAGTGAAGCTCTTCACAGTC ATTGGATTAAATTATGTTGAGTTCTTTGGACCAAC[C/I]TTTTTGTCTTTAGAGTTGTTTCAATGTTTG TGATTGCATGTTTCTCCTTCAACTGTGTTCTCCCTGGCATTACAGAGGAGGAGGAGGAAGA CCCTCTGACCTGCAGGCCAAGAGCAGAGGCGAGTTGGGGAAAGCCCTCTGCTGCCATGGT[C/G]T GTCCCTCTCGGAAGGCTGGCTGGGCAATGGACGTTCCGGGCATGCTGGGGCAAGTCCCTGACTCTCTGT G
M32315b	129 T C CATGG	GCCTCTGCTGC CATGG	GCCTTCCGAGA GGGACAC		TTCCAGGAGCAGCAAAAGGGCCCTGCTGAGCTCTGGTTAGTTACAGCTGGAGGTGTGTATATACA CACACACACCGTGTATATACACATATATATGTTATGTATATATATATATATATATATATGCTTT[C/T]C AATAACCACCTAAATTTTAAACAAAGTTCCCTCTAAGTGGTAGAACCTTGGGGTGGTATTTTACCTTC CTTCT
M33875a	131 C T GAGGTGTGT	GGTACAGCTG GAGGTGTGT	ACCTTTGTTAA AATTAGGTGG TTAT		
TIGR- A003M18 a	29 A G CT	TTTTGTAGAG ATGAGGTTTTTC	GGCAGACGGAT CACTTGA		TGTCCTTTTGTAGAGATGAGGTTTTCCT[A/G]TGTGGCCAGGATGGTCTCGAACTCCTGACTTCAA GTGATCCGCTGCTGCCCTGGCCCTCCCAAAAGTCTGGGATTATAG

TIGR- A003P30	117 C G ---	---	ACAAAGTCAAAGGAGAACCTTCCTTTGTTTAAATGCAGCTGTCTCAGAAGCCCTGTGATTTCCCTAGGA AACCATCTGGTTTAGCCCATTAGAAAATGCAGTTTAAAGCAGTGTCA[C/G]ACTGGCTGCCTGAA GGTACCCCTGGAGATACT
TIGR- A004S34	156 C T A	TTAAA	GCTTGCTTTTATGTTTAGTTGGGGGAAAGGAGGGCTGACAACCCGACAGACATCTGGACACCAGC AAGGGTCCAGGGGAGGTTTGACAGAACTCTTTTGCTTGGCTAACAGTCTGTCTATGTGACAATAGCCA AACCTCCTCATTCCTATAAA[C/T]CTTTAACAAAAACAGTTAGCTGTTTACAAAAACAGTTAGCTGTT TACATG
TIGR- A004T44b	97 A C ---	---	AACAACAGTGAATCTTTAACAGGGGATGTTAAAGGTAAAGATCAGGAAGATAAACCCAAAAATGAT TGAGTATGATAAAGAAATTTTGCATGGCGATT[A/C]AAATAGAAAACCTATAAATGTAGAAAAAGCA GGTCTGGACTTAGCAAAAGAACAAATATGACTTAGCAAAAGAAAAATATAG
TIGR- A004T44a	69 G A TGA	GCCATGCAAAA TTCCTTATCA	AACAACAGTGAATCTTTAACAGGGGATGTTAAAGGTAAAGATCAGGAAGATAAACCCAAAAATGAT TGA[G/A]TATGATAAAGAAATTTTGCATGGCGATTAAATAGAAAACCTATAAATGTAGAAAAAGCA GGTCTGGACTTAGCAAAAGAACAAATATGACTTAGCAAAAGAAAAATATAG
TIGR- A004V08	60 T C GGCATCTCTT	TCCTCCACCA AAAGGC	CCTACAATCCTATATATTGCAAGGGTTGGGAAGGATGCAGGAACAGGCATTCTCTTAT[C/G]GCC TTTTGTGGGAAGGATCAATTTGGTGCATGCACCTTTAGGGGACAAATTTGGCAGTAGCTGTCAAATTTG AGTAGCTGTCAAAATTTCAAA
TIGR- A004V26	125 A G ---	---	TCTAGCTATAAGACCAGATTTTAAATTTCTAGATATAGAAATATCCAGAATAATTTCTATTGAATTGA CTGATTACAAAATGTTAACAGCTGGATAAACGGTAAATATGCATTATCTTCACATGA[A/G]AAGGT TTCAGTTTATAAATGCTTAAATACTGTATCTATTGCTTAAATACTGTATCTATTGG
TIGR- A004V28 a	29 A G CGATCTC	CGGAGGTTGCA GTGAGC	CCAGGCTATAATGTTGGGTGCGATCTC[A/G]GCTCACTGCAACCTCCGCTCCAGGTTCAAGCAA TTCTCCTGCCTCAGCCTCTTGAGTAGCCGGGACTACAGGCACCCGCCACCGCACCTAACTAATTTTTG TATTTTTTAGTAGAGACATTGTATTTTTTAGTAGACACAGG
TIGR- A004X20	25 T C GA	TTTATAGTTG ACTGTAACATG GAGAC	TAAGTTTTCTCTCTCTCTAGGA[T/C]GTCTCCATGTTACAGTCAACTATAAACATGGCTCATGT TCACTCTGGGCTCGCTTCAGAGGAGTTTGATATTTTGGAAAGTGGTACCTTTTGTCTGTGCTTTTCA GACCAACCGCTTCTTTCATTTCTCAAGGCTTCTTCCAAAGGAGTTAAATCATCATCATGTGCCAATC ATCATCATGTCTCT
TIGR- A004X30	26 T C CCAC	TTCTTTATGGA AGTGTTTAAAA CTATTTT	TTTTGAAATCTTAGAGTAGAACCCAC[T/C]ACTCTAGTAATACTTGTAAATAAAATAGTTTTT AAACACTTCCATAAAGAAATAGGGGTGCCACGCTCCTTGATTTCCCCCTAGGGATAAAGATATCCAT GTTAGGGATAAAGATATCCATGTAC
TIGR- A004Z04	102 T G ATGCAAAACT	CTTATAATTAG AAATTTTCATGA AAGCAA	CACGGTATATGCCTTATATATAGGTATATATACAGATCGTACACAATATATTTAACAGTTTGACATG GGGTCCACAGTACCTTCAATTTGGGTATGCAAAACT[T/G]TTGCTTTTCATGAAATTTCTAAATTAAAGG ACTGTTGCTTTCTTCATATTCAATGGACATTATACAAAAATACAGTCTCTTTAGTGAATTAAGACGTC TCTTTAGTATTAAAGACTG

TIGR- A004Z19	85 C T	GAGAACAACT GCAGCAATTTT	AAGATGGTCAT CGGGAAGA	TAAGTGGAGACAAGTTTATTGGAGGAGCTTGACACCCCTCTCTGCCCTAGCTTGAGAGAACAACCTGC AGCATTTTCTTTCTTTTCTTCTCCGATGACCATCTTTGGCTGGCGGGCCAGGCCCTGGGTGTC TCCCATATCGCTGCTTTTAGTGAGACTGAGGATCTGGTATAAGGAAACAGATC
TIGR- A004Z42c	89 C T	TTGGGGGAGGT AGGAGACT	CAGGGCTGCCG GTCC	GTCTTAGCAGAGGAGATAACTTTGAGGGACAGCCCCCAAGGGCCAGGTAGCCTTCAGGGGGGGGCA GGGTGGGGGAGGTAGGAGACTCTGGACCGGAGCCCTGGCTCCAGCTTCATCATCTGTGTCTCTT CATCATCTGTGTCTTTC
TIGR- A005D17 c	81 T C	---	---	TATGGACTGTGTAGAAATATGATTTGGACAAGAAGGGTATGATCTAATAGTAATAGACTGAGAGGGG AAACCCAGCAAGGCTCTGTCTAGATCTCTTGGCCTCTCTGTGCAGGATTCCTTCTTCTGGGCAC GGGGTGGGACCCCTCTCTGGAATGGGTATCTTACGACAGTCAAACTCTTACGACAGTCAAAAC
TIGR- A005D17 b	79 G C	GGGAAACCC AGCAAG	GAGAGGCCAA GAAGAATCTAG AC	TATGGACTGTGTAGAAATATGATTTGGACAAGAAGGGTATGATCTAATAGTAATAGACTGAGAGGGG AAACCCAGCAAGGCTCTGTCTAGATCTCTTGGCCTCTCTGTGCAGGATTCCTTCTTCTGGGCAC GGGGTGGGACCCCTCTCTGGAATGGGTATCTTACGACAGTCAAACTCTTACGACAGTCAAAAC
TIGR- A005D44	97 G T	TTAACATTATT GAACCTAAAA CTGTACAC	TTGTCTATTAT TTAAAGCCCAAC AAAA	CATCAGTAACATATACACAAATGGTCACTCAACTGAACCTTGGCCTCCAATATATTTCTATACAATACTT AACATTATTGAACCTTAAACCTGTTACACTGCTTTTGGCTTTAAATAATAGACAATGATTTTGG TCTATTACTTAGTGATAGACAAAGTATTACTTTGTAGACAAAGTGATTACTTTGTTAC
TIGR- A005E31b	27 G A	---	---	GGAGTTCAAAATTTATAACCCAGGCCTCTTG/ACTACAGCTGTACTGGTAGGCAAGCTTTCCAGAC ACAAAGCCACCTGCCCTGCCATGTGGATAGTACTCTTTGCCTGCTTGCCCCCTACAAGCCACCTTCTAT TTCATACCAATACCTTCTATTTACATACCAATAAG
TIGR- A005E39	182 G C	---	---	CTCAGTGTAACAACTTTGTTAGGGAAAAAATAATCCAATGGATATATGGGAAGAGAAGTG CCAGGCTGGATGGTCTGAGACAGAAATGACCCCTGGGCTCCTTTATTTGTTCTTTCAACAGGACC CCACAGATAATTTGCGGTATGTCATGAGGACTGGGGATGCTCTCTATTGCTGCTGGATGCTCTCTATTT
TIGR- A005E42a	42 A G	AGTAAGGTTA CTGCACCTTAC AGAG	CCTAAATCAGG GGAAATTGAG	GCTGAGTTTGTATCTTAGTAAGGTACTGCACCTTACAGAGT/CTCAATTTCCCTGATTTAGGA AGGCGATGCTAATGGGTATTGCATAGGTAGTAAAGTATAAAATGTTGTAATTAAGAGAAATCCCAACAG CTTGGTATAAGGCAGAAAAATAATGGTATAAGGCAGAAAAATAATAG
TIGR- A005E46	76 A G	CACCTGACTCG GTGCTTTAC	CCCTGGCTGTG AGGTAATGT	ATGACAATGATGATAGTATTAGCCTACCGTTTGTAAAGCACCTACTGCGTATCAGGCACCTGACTCGG TGCTTTAC/AGTACATTACCTCACAGCCAGGTTGGCAATGGTCAATTTTGACAAATGGTCAATTTTG ACAC
U20979	24 C T A	GCAGGGGTGA CGTATGTAGA	GGGGAGGACAC CCTAAGC	AGAGCAGGGGTGACGTATGTAGA/CTGCTTAGGGTGTCTCCCAACAGAGCAGATACTTGAACCG ACTCAATTCCTGTGTAAAGAGCAGCTTTGTCTGCTTACGGACCTCCCCAAAGTGTGCAGAGTTCTAT ATAGGATGCTGGATTAGTTCTTTGATATTGTAAAAATCCCCCAAGAGCCGCATATGAATCTGCC

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X57830	106 G C T	AGTGAACCA ACGATCATAT	CATTGACAGAA TAAATGAGGC A	GTGGCAACTGTGGAAGGCACACTGAGCAAGTTTTCACCTATCTGGAACCAATATGAGATTGGA AAAAATTAGACAAGTCTAGTGGAAACCAACGATCATATCTG/CJTATGCCTCATTTTATCTGTCAAT GAAVAGCGGGTTCAATGCTACAAAAATGTGTGCTTGGAAAAATGTTCTGACAGCATTTCAGCTGTGAG CTTC
X74070b	72 T G TGGATC	CTTTTAAAGAA ATTTTGTTTA	GGGCTTAAAAA TATTAGAGATC TAGATTT	AACCTGAAGAAGTTACTGGGAGCTGCTATTTATATATGACTGCTTTTAAAGAAATTTTGTATG GATC/TGJGATAAAACTAGATCTCTAATATTTTAAAGCCCAAGCCCCCTTGGACACTGCAGCTCTTT CAGTTTTCCTTATACACAATTCATTTTCAGCTAATTAAGCCGAAGAAGCCCTGGGAATCAAGTTT GAA
Z48804	44 C T ---	---	---	ACTGCCGAAGTGTAGCGGCCCAACCTTGCTCTCATCACAG/CJTJTAGAGCTTCTCCCCGAAGGG CCTTAGGATAGGAGAAAGGGTTTCATGCACACACGCTGTGAGAAATGGAAGAGCCCCCTCCAGACCACT CTACAGCTGCTAGCCTTAGTTGCCACTAGGAAGTTTCTGAGGCTGGCTGTAAGTAAGTGTAAAGG TCCA
D28513b	133 A G ---	---	---	ATGACCAAGCCACCACATTTAGAACITTTGGCTGCCITTTGGAAGTCCAGAGCTGGATCTCTCAGCTCC CGCCCCAGAGGGTCAGCACTTTGGACATGGCTCACAAGCAGITTTTATTGACTGCATGAATGC/A GJTGCGTGCAAGCATGAACCTTGTAAATCAAGAGGCTTACATAATTTTAAACCAGTTCTGTCTTC AGCTGTACATA
D29833b	85 A G ---	---	---	CCACTCCATCCTGATGCCCAAGTTATCCACAGCCTCCTTCCCGAACCAAGACCCCTATCCACCTGGACC TCCATTTTCCCTGTAAJ/GJTTCTCCAAGTATCCTACCTCCCTACTCCTGCACCCCAATATGAA CAACTGCAGCAGGTGCCACCAACCAACCAAAAGACACCACTACCCCTTGTAACACTGCTTCTGCTAC
D29833a	21 A G ---	---	---	CCACTCCATCCTGATGCCCAJ/GJTTATCCACAGCCTCCTTCCCGAACCAAGACCCCTATCCACCTGG ACCTCCATTTTCCCTGTAAATCTCCAAGTATCCTACCTCCCTACTCCTGCACCCCAATATGAA CAACTGCAGCAGGTGCCACCAACCAACCAAAAGACACCACTACCCCTTGTAACACTGCTTCTGCTAC
D31762	82 G A ---	---	---	CTCCCTGCCCTCCTCCTTCCCTGCTGATGCTCGTCTCAACAGCCGAACCTGCTTGCATGGGGG GAGGGGGCGTTTC[G/A]CTTTCCCTTCTTGGCTTCCCTTATCTTCCACAAACCATTTCTCAATAAA GCCAAAAATCTTCTCTTCTCCCTCAGGCCACCTCCTGTCTCACTCCTGTCTGTGCTGGCTTTT CTGGA
D37931	64 T C ---	---	---	ATTATCGCGAGTGGTTGACCTTACACTTACTCCTTAAATAGCAGTGAGTAATGCATTTGAGCTG/T/C] CCCAGGCTCTGTCTCCTCAGGTCATTTCCCTACTCTTTTCTCTATATAACTCATTTCTATTAATACATT GCACCAAGAGATATGGAGACATAAACCTGTAATGAATGAGGCTGGCTTTTCTGTAAATAAGCTTCC TTT

D63807	101 C T ---	---	CAGCAGGACTTCAGTGTGATCCCTGCCCTCAGTCTCTTTAGAAATCACATCTGTTCAATCC ATTGTTTAGAGGGAGTGATTTTCTCTGTTCCA[C/T]GAAGAGGACTTTTGTTCACAATTTGGATCAC AATGCAGAGGAGTCTGTTCCCTCCCGCTGGCTTCTCGGTGCTGGAGGGTGACCTGTCCAGATGAC TGGAACATGCGTGTGACCTC[T/C]ACAGCTACCTCTTCTATGGACTGGTTATTGCCAAACAGCCACA CTGTGGGACTCTTCTTAACCTAAATTTTAAATTTATTTATCTATTTAGTTTATTTTATTTATTTTAT TTCACAGTGTGTTGTGATTGTTGCTCTGAGAGTCCCTGTCCCTCCACCTTCCCTCACAGTGTG TCTGGTG
D90145	21 T C ---	---	ATTATCACTCTCAAAAATTTGGTGTGTGTTAAGTACTTCTTATTATGAGCCCC[T/C]GAGGA CCAGACATGTTATTATCAAGCCCCATTATACCATCTAAT
EST14035 1a	59 T C ---	---	GCATTTTAAATTCACATTTGAATCAATTAATTTACTATTTATGATGTTTACATAACAATTCAGTATCAT ATG[C/T]GTAGATTTTCAGATGTAGGTCGTCAATACTGAGCACTTAATCT
EST16668 5	71 C T ---	---	ACAGACTATCGCCAACTTATAATGCTTAAACTTTATGATCAATAGTAAATAAATACAC[C/T]GAGATA TTCACACTTTATTATAAATAGGGTTGTGTAAGATGATTTTCCCAACTGTAGGTTAACAT
EST16904 7	57 C T ---	---	TTTTAAGTACCAGAGGCACTGCTGGAACAGGATGAAAACTGATACACC[A/G]GTTACTACTTACTC TTCACCTCTCAAACTGATCCCTAAAGACTTCTACTTAGCAAA
EST21863 9	49 A G ---	---	GGCTGTAAGTAGAATCAAAAGGTTAAGAACATTTTATGCACCTTATTCACAAAACATTTACTGAGCATA CTAGGTGCTGGG[A/G]TGTGACAGTGAGCAAAAAACACAA
EST21885 6	80 G A ---	---	ATTTAGTGCAAAATGACAAAGCCCAA[A/G]AGAACAGAGGATCAAAATAGATTGAAATGTATTACC TTCTCATAAGTATACGAAGTTTAAACACAAGTATGGGAGT
EST22623 8a	26 A G ---	---	AAAATGATTGAATTCAGCAAGTACATTTATGATCTATCTACATTTTAAAAACAGCACTAAAAATAA AAATTTTAAATGATTATCCATTATTTACAG[A/G]AAATGIGGAAAAAGATGGCTTTTAAACCC
EST22644 2	98 A G ---	---	CCTCATTTATTTAAAAAGACGGACATAAAAA[T/A]TATACAACAAAAAACCCAAAGTCACATTTACAG GAGGTAAAACTAAAAAGTCTGATATGAAAAATATGGTGG
EST23587 1	31 T A ---	---	AAAGATCTGGCAATTTACACATCATCTAAATATTTTGTAAATTTTCCATGAGTATTTTTCAT TGTCCAAGCATTTTAACTATCATTTTAGCGTAAATACC[T/C]GAATAACCCATAGTTACAGAAATGG GTCGTGTAACTCAAT
EST24246 7	106 T C ---	---	TAGTTTAAATTTCTGAACCTTTGGCTTATAAATTTTCTCAACTT[A/G]CATTTAAAAATGTATCAAT GCACCTCTTCAGTAGTACCACATGAAATATATAACCTCGTTC
EST24308 3	45 A G ---	---	CTTGAACCTCTGGTCTCAAGTGGTACGTCGCTCAACCTCCCAAAATGATGCGATTACAGGCATAAG CAGCC[G/A]TGCCCTGACCCACATTTCTTTATCCGATCTGTGATGGACATTCAGGTGTTTC
EST24435 6	73 G A ---	---	TATTGTTGCATTATCAAAATGGTTA[T/C]AGTTTCAATTAACCTGTAATTTGATTTCTATGTATAAA ACAGCTTTGAAGTTGTAATGATGTTTCCCAATCGTTAGTTAATGCTACATT
EST25089 6	25 T C ---	---	

EST25476 9	33 G A ---	---	AATGATCTTTATTTTCAGACCTGCTCCTAAAA[G/A]CTTTCTCCTCCTCTAAAAAACCAACACA AGAGGTCTCTTCTGCTGCTTTCCATGGACTGTGGCGCTGTGGACTTGGACCGTCTGCTGA
EST26183 2	70 T A ---	---	AGATAATGCATTAGAGCCTGCCCTCATTGTATCTTTGATTAACTTTGTAAAGATTGATCTCTAAATAAG ATT[A]ACATTCCTGGGTACTGGGAGTTAGAACAAAC
EST27231 1a	28 T C ---	---	AGAAAAAAGGTGCTACCAAGAACTCATGT[C]GATAGCGCTTTCTTTAGGCACATATTATAGCATT CAGATGAAAAGTTCTGTAATCACACACACACTGTGCTCTAACCAACAAACACGGTGACTCTGA
EST27816 5a	26 T C ---	---	CAACTCAAGGTACAAGACAAATTGCAT[C]TAACATTGTTATAATAAAAGGAACATCAGATCAAT CATTAAAGGGCTCCAGAGTGAACAGCATCTTCATAACTTCCATGTT
EST28588 0	78 A T ---	---	GTTTAATTGGCGTATGTTCCACAGGCTGTACAGAAAGCATGATGGCTTCTGGGAGGTTCTCAGGAA ACTTACAATCA[A/T]GGTAGAAGGCAAAAGAGAGAGGAGGCATCTCTCCATGACCACACAGCAGGAGG AACAGACAGAGGAGGGGGAT
EST30226 5	25 A C ---	---	TACTCACACCGACATACATATCTCA[C]GTAGAATTAGCTATACCTACTACTAATTCATTGTAGT AGGGAATATAAACTACTGAACAAGACAGACTTGTCTAACTTAAACAAGACAGACTCATTTCCCTTTGA G
EST30935 9a	59 C G ---	---	AGCTATGTAGAGCAAAATCCAGTGGTGTAAATCAAGAACTCTAAAGTTCAGTAGAGA[C/G]AGGT GTTTTGAATGTCAAGGAAATCACTGAGGTAGATTGGGATTACAATAAGACAGCTGCCCTGTGAGGT CATAAGAGCTTTTGTGAGG
EST32515 7	25 G A ---	---	CCGAATATAAGGAAAAAATGGTGG[C/G]ATGCCTCTAAACCTGTTGAATAGAATAATGGCCAAAT ATTACAGTTTCTCAGTTTCTCTATGAATACTGGCAGTGTATTTATTCATGTTTATATGTGAGTTTCTATGC ATAAAAAATCCCAGTAAGA
EST33274 4	27 T C ---	---	TGCTTTGTTCCCTCCAAATCCTAAAAT[C]GTGTGCTCTCAAGAAATTCGTGGAAGGACTTTGAA TACGAGTTTGTACCATAATCAAGTATTTCTTGAATACAGGTTTCAGATAACTATGGAGATGATACCATT GGACTAGGTA
EST33352 7b	75 C G ---	---	TACACATTATTCAAGAGACCACCTGACATGCATCTCCTCCGAGAAATACATTCGTCTCTCTAGAGA AGTTTAA[C/G]GCACATAGTATTTTACTAAGAGAATACTCTTGGTGCATATCTAGGGG
EST33424 1	126 A C ---	---	ATTTTCCCACAGCAGAAGTATTTTATGTCTGAAATCAGGTAGCAGGGAATGAATAGCTCTTGG GAACCAGTACAGAATGTTACAAAAGATTACAAATCTCAGTCATTACACACTGAGCAAC[A/C]AAA CAAAGGTGTTGAATCCTCT
EST33488 7	90 A G ---	---	CCTTTGGGGGAGTTTTAAGCCAGAATGTGACAAAGTCACTTACAGGAAGACTGGAATGTAGCCATAG TTGAACTCTAACATCGTCTATAG[A/G]ACCATTTCCCGTCTCCAGTTAGGTTCTAGGCATACTAAGCT GCTC
EST33508 1b	45 C T ---	---	AAAAACATGCTATTTGAACAAACTTTTTTATAAAGAATAAGTTGA[C/T]TGAAAGCAGTTTTAAAT AACATCAACTCACAAATGACTTTTAGAAGCCAAATAA

EST33508 1a	36 A G ---	---	AAAAACATGCTATTTGAACAAACTTTTTTATAAAGA[A/G]TAAGTTGACTGAAAAAGCAGTTTTTAAAT AACATCAACTCACAATGACTTTTAGAAGCCAAATAA
EST33863 4	77 C T ---	---	ACAACATAGGACTGGTTATCTTGGTTTTGAAAAATATGTGGCCACTTCCTATTGTTTTAAAAATGA TCATTTAA[C/T]CTTTGAACTACAGCCTGAATCCCCC
EST34739 3	97 T A ---	---	GAAGTATCCTTCCCAGTGGCAGGAAGTGAAGACTCCAGATCAACAGGTGGACCTTTTCGTTGATGA GCTGATAGCTTCTAGGCTGTGGGAACCTC[T/A]GGTGCCTTACAACCTCCAACCTACTGCAGAAATTTCT TGTTGTGCCTCATAAACA
EST34792 6b	104 A G ---	---	ACCTGACTGCTTTAAAGCTCTTTGTAAGCTGACCGTAGCACAGATCACGTGGCATCCACTATCAATA CTCATAAGTCTAATTTATCCTCAGGATGTTCCCTGA[A/G]GTATTGAGGAATCTTAGTCCTATTACA AAGATTTGTGCTGTG
EST34835 9b	93 T G ---	---	GGAAAAATGTTCCCTTTGCAACAAGGTACGTTTATTCTGCAACTTAGGAGATAAAATGAGATTTCTG TGGGGAGTCTATGTTGTGCTTTCTGG[T/G]GGCCTTAAAGAAACAGACAAAATTTGTGCTAAAGAT
EST34835 9a	82 G A ---	---	GGAAAAATGTTCCCTTTGCAACAAGGTACGTTTATTCTGCAACTTAGGAGATAAAATGAGATTTCTG TGGGGAGTCTATG[T/G]ATGCTTTCTGGTGGCCTTAAAGAAACAGACAAAATTTGTGCTAAAGAT
EST35230 0	93 G T ---	---	CACAAAGGTCCACTTTACTTACATGAAGGAACATAAAGGCATGAGAAACAGTCATCTCAATAAATG CAAGACATGAGCATAAAGAGGTTCTC[G/T]GCCTTTCCAGCGTTGTTATTACAGAGAGAAACCT
EST35337 9	33 C T ---	---	TCCTTTCAAAATTTTGTAGTGGCAATTAATG[C/T]ATAAAATTCCTGCTTAGGAATGTATCTGCT ATATCTCAGAAGTTTGGGCATGTTGTTTCCATTTTACTTAGTTGAGAACTTTTCAATTTTCATCT
EST35708 9	32 C T ---	---	CTGCCCCAAATTAACITTTAGGCAATGGAAA[C/T]AGACTTACTGTATGGGACATTTTAAAAAG ACAGCTTAGTAATATGTTTCATATGCAGCGTGTGCTTCCCTCTCTGAGGTGGCACCTTTTCTGTTGTG ATGTGCAAGTGTGGCT
EST35747 9	51 C G ---	---	ATCCAGTGCAGAGTTGTAGCTGGAGACATATTTCAACCCACAAAGGCTCCA[C/G]ATGTTAAAAAGT TTCCCAACATCAACCTAATACAGTGACAGCAACACCTCCCTCCTGCCCTTCCAGTAGGGTTGAGATT G
EST35751 9	89 C A ---	---	TGGTCCATTATATTAACACTGAGGGAACAAACGGTGTGCTGACATGGCAGACATTTATTTCAATGGAGA AGTTCTCCTCCATGAAACCAAGA[C/A]CTTGCTCTCATGATAAAGTGGAGACAATAAGAAAGCCAGGT ATATAATTAAGGCCTGTGA
EST36301 4	93 C T ---	---	CACCTGTTTCATTGGTTCAGTGGGCTGCTATCTGTGGGCTGATGCTCTACCAAGTGTCAAGCCTACAGC AGTCAGGAGGCAGCCATGGCCCCCTG[C/T]GCTGATGGAGCTTGTAAATTTAGCCCCAAACTGATCTTCA GAAAGAGGTACAACAAA
EST36519 0a	33 G T ---	---	GCCATCAGCCCCACAAAGACATGACTACCAACGC[G/T]GGCCCCCTTGACCCCCATACTGGCCCTCAGCAC CTAAGACTGGACAACCTTTGTACCTAATGACCGCCCCACCTGGCATATACTGGCTGGCCTCTTCTCTGT CACAGGGGCTTAGTGT

EST36820 6	50 G A ---	---	GACITATTAGATAAGGGTTTCGGCTACCCCTCAAAGCTCTCAGGACTGG[A]GCTAGGGTTAAGG AAGGCTTATTTAAATATGGGAAATAAAATACAAAAGGGCCACACCCGATGCAAAAGACTTT
EST36690 0a	89 C G ---	---	CCTGTGATGTGCATGGTGCCTGAGCAGTCGTACTTACTATGCGTCAGACAGCTCAGTATGTCAGGA AAGGAAGTCTGGGGATTCCTA[C/G]AGGGGGACATATCACACATATTCTAAGTCACTGTGTGACTCGG CTTGAGCAAGTCATTCA
EST36729 9	62 C T ---	---	GAGACAGAAGCCCATCAGTTAAATGAGTTAGGCCTCTCCTCTAATACTACTGATTGACAATG[C/T]A TATTAGCCAGGTAATGCACITTAGCTACCTCGACAATGCTATCAAGTGTCTGGGAGGGAG
EST36823 6	103 A T ---	---	ACTGTCTGGCGGATGATTGGAGCTTGAAAAAACTAACCATGCCAGATCTCCACCCAGACCAATTAG GTCAGTATCTCTGGGGTGTCTATTCAAGCAACAATT[A/T]CTTTTATGTTCTTAAGTCAATCATGAG TTAA
EST36987 4	126 C G ---	---	ATGATCGCTTATGTAATTTGAGGGCGACATGGGTAATGGGAGATACCCACAGGACCTGTAAATATT TAAATAATATTTAACAGCTGATCAGAGGCTAAATTACAACCTGACATTTTATGTCAGTTT[C/G]GTTA GGGAATTAAGACAATGCAG
EST37054 3	88 T C ---	---	GGTCTCACTCTCTTGGCCAGGACGGTTTGAAACTCCTGAGCTCAAGTGACCCCTCCACCTTGGCTTCC GAAAGTGCTAGGATTACAGG[T/C]GTGAGCCACACACCTGGTCTTGGTTTAAAGTAACCACTGAA C
EST37269 3b	105 T G ---	---	AATAGTCTATGGCTACGGGCCGTTGGGATGTTAAAAATTGGGATTTTAAATTAAGATTGTGAACATG CAAAACCCAGCAATTTCTCAGCTTATATTTTGAAGTCT[G/C]AGGAGAAAAAATGGGGTCC
EST37284 2	93 G T ---	---	AAAAGACCTTCTCAAGCAGTAACTTTGAGCAGAGACTCAGATGAAGTAAGGGATGAACCCAGGAA GCTCTCTGGATAATGTCACCTCTAGGAA[G/T]AGTAAACAGGTGTTAAACCCTGAGATAGCAACCCT CTTGGCTTGTGAGGAATA
EST37315 2a	90 A G ---	---	AGATGGGCTCTGTAGCTTGCTCGGGCTGAACATAAGATATCCTCTGCCTCAGCCTCCAGGTAGT TGGAACCTATAGTAGGAGTATCT[A/G]CCCTGCCCTGCTAGAACCTTCAAGTTTGTATGGGCAAAATCCA CCCCAGAGGACAGGACAA
EST37374 1	45 C T ---	---	CCTGCCATGATAATGTTAAACATATCAAGATCCTCTCAAACCTT[C/T]AAGGGTGAAGCATACC ATTCCATTTAGTTGAAATATTCCTTCACATAGCCCAACACATTTTTCAGGCACTCTAGCTACTACA GGA
EST37376 8b	101 G C ---	---	GTGACATCATGTCTCTCAATGCCCTTCAATTAAATAGTAGTTGAGCGCTGGGGGCTGAAGTCAGACT CTCTGGGTTCAAATCACAGTGTCTGTCTGCA[G/C]GCTGTCTCCTCAGGCAAGTTGCTGACTTCTCTG TGTCACAGG
EST37376 8a	41 T C ---	---	GTGACATCATGTCTCTCAATGCCCTTCAATTAAATAGTAGT[C/T]GAGCGCTGGGGGCTGAAGTCAG ACTCTCTGGGTTCAAATCACAGTGTCTGTCTCTCAGGCTGTCTCAGGCAAGTTGCTGACTTCTCTGT GTCCAGG



EST37378 9	63 T G ---	---	ACACACAAAAAATGGTGGCAGAAAAATCTGGAAAGATTCTAATAACCTCAATTCTCGTGAAAAAC[T/G JAACATGCCTCAAAAAAGAGGGGAAAAAACCTTTAACAGAAACACTGTGCTGACATGATTAGCTT
EST37452 4	46 G A ---	---	AAGACATAAATCTGCAATGAATCAGTTATGAAATATTAACCTCT[G/A]CTTCAGGAGTGACAC TAATCATGGTCTGGAAGCTAGCCTATCGCATTTTAAACACCCCTTAAATCAATGACGTAGAA
EST37613 6	34 A G ---	---	CTAGGCATGGGCTTTTACAGTCATTTATTTACC[G/G]TCATGAATTCATTAAAAACACACGCGAT ATAGCAATGAGCAAAACAGACCCCTCCCAAAATCACCCCTGCGTTTCATGGATCTTCCATTCTAA
EST38025 4	56 T G ---	---	TTATTGAGTAGCTACACTGTGGCCAGAACTAAGCTTTACATGTTTTATATCACTTA[T/G]TTATCTCA ACAATCTTGAAAGGGTGGTATTATTTCCCGTCTTATAGGTGAAGACTCTGAGGTTTCAGAA
EST38068 6	57 C T ---	---	TCTACCAGGTCACCAAGTATCTGTATATGCTTTAAGTGGCATTTTCATGTCACTTA[C/T]CGCATGG AAGAACGCTCTCCTTTTAAITCCCTAACTCTCTTCTCTGGGAAGACAGAACGTGCACAA
EST38420 6a	100 T C ---	---	TAAATCAAGGCCCTCTTTTCATTACCAAAACAAAAACAAAAAAGGGAACAAAAATACGATGGGAGAGG GAAGAGATGATGCCGAAGTGTCACTCCTGACTGAGT[C/G]TCCCTGCAGTCCCCATGGGTCCCCGTGCCT TATTCATTCTCCTCTCTCA
EST38950 5	25 T C ---	---	TTTATTTGCAAAAGTAAGCAGCCGGT[C/G]GGTCCCTGGATTGAGGCTGAGGAAGACATTACTTCCTG CTGGAATACTTGGACTTACATTTGACACAGGCTAAAGTATGGGATGAGAGAGGAACAAAAAGCTT ACAAACAAAGAGCAGCCA
EST39053 6	90 T C ---	---	TTTTTGTACTCTGTAGCCAGTCATTAATCTGAAGGTTTAAATATATCATTTTTATTGGGATGAGATCA TAGTCTTTACACAAATGCTATG[T/C]AAACAAAGTTACTGAATATTTTCCCTCGTGGAGTTG
EST39331 1	70 G C ---	---	TCCTTCTGCTCTCTAGCACTCAGACCACCAAGAAAGCCCTGGAAGACCAGCCATGGAAGGAAAGTA TG[C/G]GTGTTTTAGGGAGAGCTGGCACCTGGCCTCTAATCTTCCCTCTGCCATTGCCAGATGGGT GCCTTTGGATACATCACT
EST40544 7	31 C A ---	---	GTCAACCATTGACCTTACATAGTGCCCTCTAGT[C/A]ACCTATGAGGCACCTAGAACCTCTATTGTACTTCT CACTTTATCACATTAGCTATCGAAGTTTGAAATTT
EST40548 4	37 T C ---	---	TTCTAATAGCATGCCCTGTGACAGGGAAACTAAGCTC[T/C]TCAAAATAACTGAAACTAAATCTGTA AGATAAATGCTGGAATTTGAGAAGGCACATGCCCTTTGTAGTTTTCTCCAGAAAGGCTCAAGGTGTTT AATAATCTGTGGGACTCA
EST40549 1	42 A G ---	---	TGTTTCTCTAGAGAACCCTGTGTGATACACTACGCATGCACA[G/A]ATAAGTCACATCAAGACTAA TAATCTAAATGTTAGTTTGTACCACCATTTCTACATTTGAACCTAGCTCCCTGCAAGACACCTTCTA CCCTGCACITTTGGGGAG
EST40579 1	81 A C ---	---	TGTGAATTACACATCAGTAAGCAGTTTACAGAATTTTACCTCTTACCTAAAGTCTGTGCTATCTG AGCTGGTGGAAA[A/C]GGACTTGAGACAGCGATTAAATACGGAACAAGGCTTCCAGGAAG
EST40584 3	68 A G ---	---	TTGTATGGTTGTAGGAATTTGGGAAGAAATTTATCTGTGAAGGAAATTTGCCACTGTAAATGCACACCC A[A/G]TCTGTACTCCCAATATCCTATGTTTTAAGCT

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EST51340	51 G A ---	---		GATCAAACTGTATTGCCCAGGCCAGCTCCTGAAGAACTGTGAACATATGAAC[G/A]TCTCAGCCTAGA AGGATAATGTGACCTTCAATTTGCACACCATCCATTGCTCTTTCAAACTAAGAGCCTCTCTAAGCTA GATAGGCCAAGGATTATT
J04162	134 T C ---	---		CATGGAGTAATAAGAGCAGTGGCAGCAGCATCTCTGAACATTTCTCTGGATTTGCCAACCCCATCAT CCTCAGGCCCTCTCTACAAGCAGCAGGAAACATAGAACTCAGAGCCAGATCCTTTATCCAACCTCGA[ T/C]TTTCTCTGGTCTCCAGTGGAGGGGAAAGCCCATGATCTTCAAGCAGGGAAGCCCCAGTGAGT AGCTG
K01506	63 T C ---	---		CTGAACTCCAGCTGCCCTACAAACTCCATCTCAGCTTTTCTCTCAGTTTCATGTGAAAACACT[C/C] CAGTGGCTGACTGAATTGCTGACCCCTTCAAGCTCTGCTCTTATCCATTACCTCAAAGCAGTCAITCCT TAGTAAAGTTTCCAACAATAGAAATTAATGACACTTTGGTAGCACTAATATGGAGATTATCCCTTC ATTGAGCCTTTATCCT
L18877	69 T C ---	---		TGAGTCTGAGCACGAGTTGAGCCAGGCCAGTGGAGGGAGTCTGGGCCAGTGCACCTTCCAAGGCC C[T/C]ATCCATTAGTTTCCACTGCTGTGACATGAGGCCCATCTTCACTCTTTGAAGAGAGCAG TCAGTATTGTTAGTAGTGAGTTTCTGTTCTATTGGATGACTTTGAGATTATCTTTGTTTCTGTTGGA ATTGTTCAAATGTT
L31848	36 T C ---	---		GCTATTTTACATATCCCAAGCCCTTTAGGGCTACAG[T/C]CTCTTGCTGGACCCCTGTAGGGTGCCA TTTGGAGTTCACAGCCTAGAGAAAGAAAGGCTTTGGCCCTGGTGTGGTGCCATAGGCCCTGTAAATCGT AGCGCTTTGAGAGGCTGAGGCAGGAAGATAGCTTGAGCTCAGGAAGTTCGAGACAAACCTGGGCAAT GT
L38517	137 G C ---	---		GGTCCAGAAGCCTCTCAGCCAGGAGGAGCTGGCCCTGGAAGGGACCTGAGCTGGGGGACACTGGC TCCTGCCATCTCCTCTGCCATGAAGATACACCATTGAGACTTGACTGGGCAACACCAGCGTCCCCC CC[G/C]CGTCGTGGTGTAGTCATAGAGCTGCAAGCTGAGCTGGCGAGGGGATGTTGTGACCCCTCT CTCCTAGAGACCTTGAG
L39059	123 T G ---	---		ACTTGAGAAGCAGAGCTGCCACCTTCTGGAGGCCACTGTGATGATGAGCCAAGCAATTTGGAGCCA AGTTGAAGGGACAGGGCAACAAATACAGTAGTATTTCTTTTGTATTTGTATAT[T/G]CGCCTGA AGATCATCCCGCAAGGCAGGCTGGAGGTGCCGGTGGCCCTGTGTGCTGGGATTTAGTCTGTGCTGG GAG
L41268d	173 G A ---	---		CAAAGTTGTCTCCTGCCATGAGCACCAGTCAGGCCCTTGAAGGGATCTTCTAGGGAGACAACAGC CCTGTCTCAAACTGGGTGCCAGCTCCAAATGTACCAGCAGCTGGAATCTGAAGCGGTGAGTCTGCAT CTTAGGGCATCGCTCTTCTCACCACCAAAATCTGAAC[G/A]TGCCTCTCCCTTGCCTACAAATGTCT AAGGT

L48728b	111 T C ---	---	AAGTGAACAGAAAGCAAGATGGATTGTTCCTATAAAAGACATAGTTATGTTTACTGGTATCGT AAGAAGCTGGAAAGAGAGCTCAAGTTTTTGGTTTACTTTTCAGAA[T/C]GAAGAACTTATTTCAGAAAG CAGAAAATAATCAATGAGCGATTTTAGCCCAATGCTCCAAAACTCATCCTGTACCTTGGAGATCCA GTC
M18079	52 G A ---	---	GGCACAGTCCAAAAATACAAATTGGACAGAAGATCTATATTGTACCAGAACT[G/A]JTTTATTTACACC CCATCAAGTATAAGGTTACTGATTGATTGGTCC TTTTATAAACATTGGTATATTTCCATTTCATGCCAA AGCAAAAGAAAGTAAAAAGCTAA
M19169	113 T C ---	---	TAGGATCTGTGCCAGGCCATTGGCACCAGCCACCACCCCTGTAGTGTCCCAACCCC TGGACTGGTGGCCCCCACCCTGCGGGAGGCCCTCCCATGTGCTG[T/C]GCCAAGAGACAGACAGAG AAGGCTGCAGGAGTCC TTTGTTGCTCAGCAGGGGGCTCGGCCCTCCCTCCCTTCTCGCTTCTAATA GC
M21539	114 T G ---	---	TCACCTCGTTCACAGCTCCACCTGCATCTTCTCATCAAGCCATCCAGGGATACACAGGGAGCTTCT TTCCCTTAGCCTGTGATCGCCATGATCCCCGACAGCAAA[T/G]GTTTCCCTTCTGAGGCTG CCATGCTGCCACTGTCCAGGTGGAGACTGAGCAAGGAAGTCTCAGCTGTACCGGGCTTTCAGAGCT TCTCTTTGGGTGC
M26041c	173 A G ---	---	CTTAGCATTATTTCTGGCCCCAATTATCATATCCCTTTTCTCCTCCAAATGTTTCTCCTCACCCTCT TCTGTGGGACTTAAATTGCTATATCTGCTCAGAGCTCACAATGCCCTTGAATTATTTCCCTGACTTC CTGATTTTCTTTTCTCAAGTGTTACCTACTAAG[T/G]GATGCCTGGAGTAAGCCACCAGCTACC TAATCCTCAGTAA
M26041b	157 A G ---	---	CTTAGCATTATTTCTGGCCCCAATTATCATATCCCTTTTCTCCTCCAAATGTTTCTCCTCACCCTCT TCTGTGGGACTTAAATTGCTATATCTGCTCAGAGCTCACAATGCCCTTGAATTATTTCCCTGACTTC CTGATTTTCTTTTCTCA[T/G]GTTACCTACTAAGAGATGCCTGGAGTAAGCCACCAGCTACC TAATCCTCAGTAA
M26041a	45 C G ---	---	CCTAGCATTATTTCTGGCCCCAATTATCATATCCCTTTTCTCCTCCAAATGTTTCTCCTCCTCACC TCTTCTGTGGGACTTAAATTGCTATATCTGCTCAGAGCTCACAATGCCCTTGAATTATTTCCCTGAC TTCCTGATTTTCTTTTCTCAAGTGTTACCTACTAAGAGATGCCTGGAGTAAGCCACCAGCTACC TAATCCTCAGTAA
M63967	57 G C ---	---	TAAGGAGCTGTACAGGGAGGCCAGTCACAGTCCAGCAATTCCACAACCACCTTGAC[G/C]AATGCT TGCCAAAGCTGTTTTAAAGCCAAAGAACACCCCTTTCTTTGTTCCAAATTAACCTTTAGAAGAAACCCCA CAATAAAGCAATTCAATC
M81695	34 G A ---	---	ACTTACTTACCCTCACCCTGTACGGCTGACGGG[G/A]GAACCACTGCACCACCGAGAGGGCTGGG ATGGCCTGCTTCTGCTTTGGAGAAAACGCTTGTGCTGGGAGGGGCCCTTGTCTGTCAAGGTTCT CAACTGGAAACCCCTTAGGACAGGGTCCCTGCTGTGTTTCCCCAAAAGGACTTGACTTGCATTTCTACC T

U06641d	166 C T ---	---	CTCCTCCTTTATTTCAGCATGGAGGGTTTAAATGGAGGATCCTCTTTCCCTGTGACAAAACATCTTTC ACAACTTACCTTGTTAAGACAAATTTAAAAAAGATCTTTTACAACTTACCTTGTTAAGACAAAAT TATTTCCAGGCTATTTAATACGTACTTTAG[C/T]TGGAAATTAATCTATGTCATGATTTTTTAAGCTA TGAAAATACAATGGGGGA
U09607	39 T C ---	---	GAGGCTTATGAGGTCCTCTACTTCAGGAACACCCCA[C/T]GACATTGCATTTGGGGGGGCTCCCG TGGCTGTAGAATAGCCTGTGGCCTTTGCAATTTGTTAAGGTTCAAGACAGATGGGCATATGTGTCAG TGGGGCTCTCTGAGTCCTGGCCCAAGGAAGCAAGGAACCAAAATTTAAGACTCTCGCATCTTCCCAAC CCCTTA
U09608	82 T C ---	---	GAGCAGAAGGCAAGAGCGGCAAGATGAGTTTGAGCGTTGTATTCCAAAGGCCATCTGGAGCCTC GGGAAGTCTGGTC[C/T]ACATCTGCCCGCCCTTCCAGCCCTTCCCGAGCCCTCTCTTGTCTTC ATTCATTCAACAAAATTTGGC
U10694	20 C G ---	---	GTGACATGAGGCCCATCTT[C/G]GCTCTGTGTTGAAGAGAGCAATCAGTGTCTCAGTGGCAGTGG GTGGAAGTGAGCACACTGTATGTCATCTCTGGTCCCTTGTCTATTTGGTGATTTGGAGATTTATCCTT GCTCCCTTTTGGAAATGTTCAAATGTTCTTTTAATGGTCAGTTTAATGAACCTCACCATCGAAGTTAA TGAATGACAGTA
U13877b	162 T C ---	---	AAAAAGGACTCTGGTTCAAATCCAGTTCATTTTGCTATCTTTGTGACCTTGACACAAGTTGTTTAAAC CTCTTTGTTCAAGAAATTTCTCCATGGAGTAACAATATCTAGGTGGGAGGATTAGTGAAGTTACATGT AAAGCACAGAGGAACAGCCAAAGAGAT[C/T]TACCGTGGTCTTACTAAAGTACATACTCTAACTTGG GGTTACCTTCAGCA
U15555	187 T C ---	---	TTTCTGTCCACTTTCACCTGGTTTTAATAGCCAGCAGTCATAATAGTAGAGGAATCAGTCAAGCAA AAATGCTTTGGAAGAAATTAATAAGCAATGCTGAACATCAGGAATTTAGATATCCGTACAGAGAGT TCCAGTAAATTTTATGAGTCCACGACCCCTTTTCTAAGCAGTCTGGTCCATG[C/T]TGGTCTCATAC CTCATATGCAGGATTCATTCA
U17077	122 T C ---	---	TCCAATTATTGGTCCCCAAAAGCAGCTTCCAACGTTTGCCATCTGGATGACAAAACGGAAGATCCACT AAAACGTCCACGGGATTAAACAGAACGTCCTTGACAGCTGAGCATGACACACAC[C/T]CTTTGTTGG ACATTTAAATTCACCTCTGCTGAATAGGAGGAAGCTTTTCTTTTCCCTGGGAAAACAACTGTCTCTTGG AATTA
U18543	58 T C ---	---	GCACATGCAGAATAGACTCAGCCTATGTCCTGATTCCAGCTGGGTAGTTCTAGAACTT[C/T]AGAAG CTCCATCTTTTAAATGTTTTTATTTGTTATGTCCTCCCTCCCGGCTCCACCTAAATTTAGAGCTTTAAA AGATGCACTGCCCAATAGGACACACGATGGTGTAGCTGAAGTTTATTAGCAATTAGGCACTTCC AAGGCTTTAGTAGAGAGGCG

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U25975b	164 C A ---	---	TCACGTCTGGCCTCATACTCTTTTCCATTTTCTACAAGAAGCCTTTTAGTATATGAAAATTATT ACTCTTTTGGGGTTAAAGAAATGGTCTGCATAACCTGAATGAAAGCAATGACTATTCTCTG AAGACAAACCAAGAGAAAATTGCAAAAAGAC[A/A]AAGTATGACTTTTATATGAACCCCTTCTTTAGG GTCCAGAAGGAATTGTGGACTGA
U25975a	143 C G ---	---	TCACGTCTGGCCTCATACTCTTTTCCATTTTCTACAAGAAGCCTTTTAGTATATGAAAATTATT ACTCTTTTGGGGTTAAAGAAATGGTCTGCATAACCTGAATGAAAGCAATGACTATTCTCTG AAGACAAAC[C/G]AAGAGAAAAATTGCAAAAAGACAAAGTATGACTTTTATATGAACCCCTTCTTTAGG GTCCAGAAGGAATTGTGGACTGA
U25997	61 A G ---	---	CAGGGAGAGGTTATTACAAACCTCACCAAACTAGTATCATTTTAGGGTGTGACACACCA[A/G]TT TTGAGTGTACTGTGCCCTGGTTGATTTTTTAAAGTAGTTCTCTATTTCTATCCCCCTTAAAGAAAAATT GCATGAAACTAGGCTTCTGTATCAATATCCCAACATTCTGCAATGGCAGCATTCOCACCAACAAAA TOC
U28413	29 C T ---	---	ATTCTGACAGCTAAATTAGCCCTAAATG[C/T]GGGTAATAATTTTCTCTCATGTTTTAAATGAGGTT AATATTTGCATAAAATCCTAAACAGACTTCTGTATAGTTTATTAGTCAAAATGTTCTTGATCC CAGATGTTGTGGCCTGGGAAAGCCCTCATTGCTACAGTACAAGTAACACAAGTCGTTGTACCTCAGTT G
U30884c	89 A G ---	---	TAGGGGTAGCATTTAAGATTCAGGAGTCATTAGCAGTGATGATTTTGGACCTGCCGTATAATCTGTT CTTCTATTTCCACGTTAGCCA[A/G]TTGTTCTTGATGAATCTATATGAGTCATAGAACACAAAATCTAT TGACGGAAAGTCATTAGAATGGCTTGATATCTGATGGCTTGAACCTTGCCACAGTTGAACACAAAGT GCTGTCA
U30884a	34 A G ---	---	TAGGGGTAGCATTTAAGATTCAGGAGTCATTAGC[A/G]GTGATGATTTTGGACCTGCCGTATAATCT GTTCTCTATTTCCACGTTAGCCAATTGTTCTTGATGAATCTATATGAGTCATAGAACACAAAATCTAT TGACGGAAAGTCATTAGAATGGCTTGATATCTGATGGCTTGAACCTTGCCACAGTTGAACACAAAGT GCTGTCA
U31216b	78 A G ---	---	GGGACAGCATATGTGGCACCCTCTCTGTGCACGTGAAGACCAATGAGACGGCTGCAACCAAAACA GCCGTATCAAA[A/G]GCCCTCACTAAAAGTTACCAAGGCTCTGGCAAGAGCCTGACCTTTTCAGATA CCAGACCAAGACCTTTTACAACGTAGAGGAGGAGGATGCCAGCCGATTTCGCTTTAGCCCGCC TGGTAGCCCTTCCAT
U31216a	70 G A ---	---	GGGACAGCATATGTGGCACCCTCTCTGTGCACGTGAAGACCAATGAGACGGCTGCAACCAAAACA GCC[G/A]TCATCAAGCCCTCACTAAAAGTTACCAAGGCTCTGGCAAGAGCCTGACCTTTTCAGATA CCAGCAACCAAGACCTTTTACAACGTAGAGGAGGAGGATGCCAGCCGATTTCGCTTTAGCCCGCC TGGTAGCCCTTCCAT

U31416c	76 G A ---	---	AGTTGCCAGCTCCCATGTACCAAGCAGCTGGAATCTGAAGGCGTGAGTCTTCATCTTAGGGCATCGCTC CTCCTCAC[G/A]CCACAAATCTGGTGCCTCTCTCTTGCTTACAAATGCTAGGTCCTCCCACTGCCTGCT GGAAGAAACACACTCCTTTGCTTAGCCACAGTCTCCTCAATTCACCTTGACCCCTGCCACCTCTCC AACCTAACTGGCTTACTTCCT
U31416b	68 C T ---	---	AGTTGCCAGCTCCCATGTACCAAGCAGCTGGAATCTGAAGGCGTGAGTCTTCATCTTAGGGCATCGCTC [C/T]TCTCAGCCACAAATCTGGTGCCTCTCTCTTGCTTACAAATGCTAGGTCCTCCCACTGCCTGCTG GAAAGAAACACACTCCTTTGCTTAGCCACAGTCTCCTCAATTCACCTTGACCCCTGCCACCTCTCCA ACCTAACTGGCTTACTTCCT
U37519a	78 C T ---	---	ACGGGTCACACAGAGAAACCTGAGCTAGCCATGAGGGGCTTATGCTCCCACTCACATTGTTCCCTCC AGACCGCAGG[C/T]TCCCCAGCCTCAGTTGCTGGAGCTGCACATGACTGCATCCTGCCTGCCAGG GCTGCAAAAGCAAGGCTTGTCTTCTATCTGGGGACGCTGCTCGAGAGAGGCCGAGAGGCCGCGAGAAC ATGCCAGGTGTCC
U37690	54 A G ---	---	GACCACGCTGAAACCCACCCACCCGCTGTGCTGACCATGGGCCCTGAGCGTCTT[AG]CCCCGAATTC ACGAGGCTGAGGCATCCGGAGCTGGCGTAATGCTGGCGCAGTGTGTGTATCCCATACCCCACT CTGGAAGGAACCATCCAGTAAAGGTCCTT
V00540	39 T C ---	---	TGAAACCGTTTCAACATGGAATGATCTGTATTGACTAA[T/C]ACACCAAGTCCACACTTCTATGACT TCTGCCATTTCAAAGACTCATTTCTCCTATAACCAACCGCATGAGTTGAATCAAAATTTTCAGATCTTT TCAGGAGTGTAAAGGAACATCATGTTTACCTGTGCAAGGCACTAGTCTTTACAGATGACCATGCTGAT A
X15943	106 A T ---	---	TCAAGAAGGTGACTGCCCTTGATGATGGGATGGGAAGATGAATGACTGGTTTTTACTGGGGTGTA AACCACTCTGAGCCTCTCTGAGACCATGTGGTTTAA[A/T]ATCCATAAGGGAAGGTACCCACAC CAGTATCTGAGTCCAGTAGCTAAGACCCCTAGAAATTTGGATTCTCTGTTTTTTCATGTCTCTCCTT GTAACCCCTGAGATCATCAG
X52011b	148 C T ---	---	AGGAAGATCCACACCGACCTTCTCTGGCTAATCCTTTAGATTAGGTCACATTACATTAACATTTAGGA ACCCAGACCCGAAAAAGTTGCTGAAAGGGGAAGGAGACACATTACAAAAGAAAGTTGCGAAAAATTGCG AAATCTGTTGTGCA[C/T]GCTCAAATGAAAACGCCCTTTCGGCTTTGGGCTTTATTTTTTGGAACTG CGAGTGGCTTAGGCTAGCCT
X52011a	118 A C ---	---	AGGAAGATCCACACCGACCTTCTCTGGCTAATCCTTTAGATTAGGTCACATTACATTAACATTTAGGA ACCCAGACCCGAAAAAGTTGCTGAAAGGGGAAGGAGACACATTACAAAAGAA[A/C]GTTGCGAAAAATT GCGAAATCTGTTGTGCACGCTCAAATGAAAACGCCCTTTCGGCTTTGGGCTTTATTTTTTGGAACTG CGAGTGGCTTAGGCTAGCCT

X54741	24 A G ---	---	CAGGCCACCTGTCTCTCCAC[A/G]TGACAGCTTCTGAGTCACCCCTCTGTCCAGCCAGCTCCT GCACAAATGGAACCTCCCGAGGCTCCAGGACTGGGGCTTGCAGGCTTGCAAAATAGCAAGGGCAG GGCAGCTGGAGACGATCTTGTGGCAGGGCTGGCCTTGCCCGAGCCCACTGGCCCCCTTCTCC
			AGCAAGCAGTGC
X54869	99 A G ---	---	AAGCATTTCGCGTTACAGTGCATCAGATACATTTTATTTCTAAATAGAAATATTATGATTGCAT AAATCTGAAATGAATTTATTTGCTCT[A/G]ATACAAAAATCTAAATCAATATTGAAATAG GATGCACACAATTACTAAAGTACAGACATCTAGCATTTGTGCGGCTCATTTTGTCAACATGGTA
X66924	147 G A ---	---	GCCGTGCTCTGACACCTCCAGAACGAGGTGCTGGGCCCCGTTCTGCTGGGACCCCGGGAACCTCTC CTGCCGGAAGCGGAGCGGATGGGCCCCAACTTCGCCCTGCCACTTGACTTCACCAATCCCT TCCTGGAGACT[G/A]AACCTGGTCTCAGGAGCGAAGGACTGTGAACCTTGCGCTGAAGAGCCAGA
X78932	62 T G ---	---	GAAATGTGAAGAAATGTGACAAAGCCTTTAAGCGGTTGTACACTTGATTGTATATAAGATAAT[G/J] CATACTGGAGAAAACTCCAGAAAGTGTGACAAATGTGACAAACATTTAATTAATCTCATACCTTA TTGCACAGGAAAGCAATTTATACTTGAGAAAAATTTGTATAAAGAAATGAAAAAGTCATTAATATCTGCT CATATCTTAACATCAGCGAGTT
X80026	25 T C ---	---	CTCAACCCATAACCTCAACCACATCT[G/J]ATCTCTCCACCCACATCCACACATCCACCTCCATCC CCAAACCCATCTCATCCCCAACTACAGCCCCAAACCCAGCCCGCAGACTAATCCACAGCCATCCCCAA CTCATCTCATCCCCAACTGCAGCCCCAAACCCAAACCCAGGGCCATCCCCAAACCCATCCCCCAAGCC AAACTCAACACCATCC
X80197b	99 G C ---	---	ACCCCAACTCAAGTCCAGGCCCCAGGCATCTTCCTGCCCTGCCCTGCTTGGCCCCATCCAGTCCAGG CGCCTGGAGCAAGTGTCAAGTACTTCTCT[G/C]ACTTTGAAAGACCCCTCCCACTCCTGGCCTCA CATTTCTGTGTATCCCCACTTCTGGGCTCTGCCACCCACAGTGGGAAAGGCCACCCCTAGAAAG
X80197a	28 A G ---	---	ACCCCAACTCAAGTCCAGGCCCCAGGC[A/G]CTTCTCTGCCCTGCCCTGCTTGGCCCCATCCAGTCC AGGCGCTGGAGCAAGTGTCAAGTACTTCTCTGCACTTTGAAAGACCCCTCCCACTCCTGGCCTCA CATTTCTGTGTATCCCCACTTCTGGGCTCTGCCACCCACAGTGGGAAAGGCCACCCCTAGAAAG
X85106	150 G A ---	---	GGCACCCAGAGTGACCAAGTCCAGAGGGAGGGGGCGCGCTCGCGTGTCCGTTTCTTTT CAGCCCGGAGAGGTCTGACCTGGGGCTTCTCCAAGCCTCACTGGCCACGCTCCCCGCCGCTCT CTTTTCTCCCAAGC[G/A]AAACCAATGCGCCCCCTTACCTCGCGTGGCCGTCGAGGCGGGGGCTT CTTTCAGAGC
X87160	128 T G ---	---	ACCACGAGCATGGTCTAAGGACATGGATCGGGTGGCCCCCAGACGTTGTCACAGGGGACCCCTCTGCC CACTCTGGGCTTTTCAGATACTCTGACCAAAAGCCTGCTTTAAACCGCAAGATGGGGCTT/GGGGC ATGCGCAGGAGGAGCCATCGGGTACTACGCAAGCAACACTCACAACGTGTCAGGCTGAGATAAATCCC GGGA

X87344	34 C T ---	---	CATCCAAAGGCACTGGTGGTGACTCTGCTTCTCTGTC/ACTGACCCAGAGCCTTGCTGTGCACTGC AAGCTGTGCTACTCAGGCCCCAAGGGGACTCTCTGTTCCATTCTCCCCCACAGACCTGTCAAGAG AAGCATGACAAACAAAATCATTTACCGACTTTAGTGCTTTTT
X87838	179 G T ---	---	GGTGGGCTGGTATCTCAGAAAGTGCCTGACACACTAACCAAGCTGAGTTTCCATGGGAACAATTGA AGTAAACTTTTGTCTGGTCTTTTGGTCGAGGAGTAAATAACAATGGATTTTGGGAGTGACTC AAGAAGTGAAGAATGCACAAGAATGGATCACAAGATGGAATTA[G]TCAAACCCCTAGCCTTGCTT GTTAAAT
Z14138	81 A G ---	---	GTTCTGCTCTACACAGGGGCTGTACAGTGAATGGTGCCATTTTCGAAGGAGCAGCAGTGTA CCTCTGTGACCC[A/G]TGAATGTGCTCCCAAGCGGCCCTGTGTGTTGACATGTGAAGCTATTTGAT ATGACCAGGTCTCAAGGTTCTCATTTCTCAGGTGACGTGATTTCTAAGGCAGGATTTGAGAGTTCACA GAAGGAT
Z18859	191 A C ---	---	TAATCCTCACCATTCTCAGGTATAAGTTCTATAAACAGGCTTGGAACTCTGGTAATTAATAACAGA AAATTATAGTCAATATACCATGACATGAAGAATGAATCCATCTTTGGAGATGGAGTATACATGACT GCAACTGTATTTTCATACGTTC TTTTCAAAGTGGGATAGCTATTGCAGCTTAAAGAGC[A/C]CAGGTTTC CAGTACTGGTTTCCAA
Z23091	159 G A ---	---	AGAACCTGACCAGATGTGGCTCGGAGGGGAATCCAGACCGCTGCTGTCTTCTCTCCCTCCCTCCCTCC CACTCTCCTCTCTTCCCTCTCTCTCACTGCAAGCTTCCCTTCCCTCTCCTCCTCCTCCTCCTCCG CTCTGTGCTCTTCAATCTCAQ[G/A]GGCCCCGAACCCCTCCTCTCTCTGTCCCGCCGCTCTCTGGAAA CTGAGCTTGACGTTTG
11595b	125 A G ---	---	GTTGGCATTGTTAGTAAACCTTCATAGGTGAAGAGGAGGATCAGTGAGATTAAGTTATTTTATCAAA GTGTGGTTTCTGCAAGGGCAGGTTTGAACCTGACCTAGTTGTGCTCCAGGACCTA[A/G]GCGTGC TCACTCACTCTGCTTTGTGTGAAGGAGTGTTTCCCATGACTGTTTAAAGTGACAAGTGCCATGG ATATCTACACCGTCACAGACTAGATTGTCTCAATGTCTTGCTTGGCTTGGAC
11595	125 A G ---	---	GTTGGCATTGTTAGTAAACCTTCATAGGTGAAGAGGAGGATCAGTGAGATTAAGTTATTTTATCAAA GTGTGGTTTCTGCAAGGGCAGGTTTGAACCTGACCTAGTTGTGCTCCAGGACCTA[A/G]GCGTGC TCACTCACTCTGCTTTGTGTGAAGGAGTGTTTCCCATGACTGTTTAAAGTGACAAGTGCCATGG ATATCTACACCGTCACAGACTAGATTGTCTCAATGTCTTGCTTGGCTTGGAC
			TATATCACAATTAGTATGTCACCTGCCATGGTAAGGACTTTTGTATCACTAGGAAATAAGAACACTTTTGAA TGGTCTTTGTCCTTTCAATAAAAAAGAGTGACATGATTGAACATGTGTTTAGATAAAGGGCACTT[G/T JGCAGGAGTGTTTAGGATGAAGAGAGAGAGATTAAGGAAGATCAGGAAGAAAAAGTAGCAATGGGA ATGAAAAATAGGAGGCCCTGAGATCCACTGGATAATCTTAAAAAACCAAGAGAAAAAG
1241	131 G T ---	---	



1282	130 C T ---	---	GTGGATCACCACACAGTCTAATTCAGATGTTTCATTACCCCTAAAGAAATCTTGTACCCATTAGCAATATTCTCTCCTGCCCTCACCCCGAGCCCTACTCTTTATCGCTATAGATTTGCC/C/ACTTGACATATCATACACATGGAGCCATACATATGTGTGCCCTTCATGATTGGCTTCTTTCACCTGAGAAATATGTTTCAAGGT
6810	68 C T ---	---	AGTATCACACATACCTTAATATATTAGATATACACAATAATAAAATCACTCCCTACCTTGAAAACTTTA/C/TAAGAGCAATTTTAAATTTACAACACAAGCTCAACGAACCTACAATAAGCTAGTAGTCTGTACGTGCCAAGGGATAAGGCTGAACAATAAATAACCCCTTAAAAATGCTATGAACAAGTACAAATTTCTTTTGAGTTCTGCAGAGCAATGACCACTAAGAAATATTTTAAAGGC
6817	118 A C ---	---	CCAAGTACATTGGGTGAACGATGAGCTAGTGTCTAGTATTGCTTTTGTAAATCCAGTTAAGACCA TCAGCATATACAACATCATCACTAACTCAACAATGTAGCTGCAGGGTAAC/A/C/TTGTGGATACCCCTGTGTCTCTACTGGCCTCCAAAGGCATTTCAGGGGATCATCAAGATGTTGGACACCTTGTGTCAAATCTTGGTTCAGGTGCGGCCTGTGCAGATCGGCTTTTGGTTGGTTGCTTAG
6819b	212 C ---	---	CCATTTATTTTCTCTAAATTTTAAAATAGAAGACTTTAATGGAACCAATTTAGTACCATCATGTCA CCCTGAATGCCAGCAATACCTCGACTTTTACACACGAGGAAGCCTAGTAAAGCCCCGTCAGTAGT ACACATTTCTCTATGGTCTTCAACAGTTTTGCATATACAAAATTTTCTGCTATTTTGTCTTAGCAAAA CAGCAATAACITTTGTGTTCTCTATATGACACCTAATATCCA
6819a	166 G T ---	---	CCATTTATTTTCTCTAAATTTTAAAATAGAAGACTTTAATGGAACCAATTTAGTACCATCATGTCA CCCTGAATGCCAGCAATACCTCGACTTTTACACACGAGGAAGCCTAGTAAAGCCCCGTCAGTAGT ACACATTTCTCTATGGTCTTCAACAGTTTTT[G/TCATATACAAAATTTTCTGCTATTTTGTCTTAGC AAACAGCAATAACTTTTGTGTTTCTCTATATGACACCTAATATCCA
681xx	39 A G ---	---	CTGGTATGTCATAAGCAATCCATAATTGTTATAGCTATTJA/G/TTACTATGGCACCATTGGGACA CAGATTATATATGTCAGACACCACGAATGTCCCTTTAAGATATGCAGCAAGCACAATCTGTCTATGGT TTAACAAAAAGAAATGAACGTCTAGG
6972b	149 G T ---	---	AGGATTCCTCTTTTCTATTGATTGGAATAGTTTCAGAAGGAATGGTACCAGTTCCTCCTTGACCT CTGGTAGAATTCGGCTGTGAATCCATCTGGTCCCTGGACTCTTTTGGTTGGTAAACTATTGATTATTCG CACAATTCAGA/G/TCCTGTTATTGGTCTATTTCAGAGATTCAACTTCTCCTGGTTTAGTCTTGGGA GAGTGTATGTGTCGAGGAAT
6972a	122 A G ---	---	AGGATTCCTCTTTTCTATTGATTGGAATAGTTTCAGAAGGAATGGTACCAGTTCCTCCTTGACCT CTGGTAGAATTCGGCTGTGAATCCATCTGGTCCCTGGACTCTTTTGGTTGGTAA/G/CTATTGATTA TTGCCACAATTCAGAGCCGTGTTATTGGTCTATTTCAGAGATTCAACTTCTCCTGGTTTAGTCTTGGGA GAGTGTATGTGTCGAGGAAT

7598k	210 A C ---	---	AAAGGTAAATCAAAGTCCCTCTATAAATTATGATTTACAAAAGACACCCCAAGCCAAAGGAACTCA ATGAAATAAGCCGCTAACCCAGATTTTACCTTGGAGAAATGAAATATTCTTGAGGATGCCCTTTTA ATATTTGATCCCAATTATGTGAGAGATTTTCCCTGATATGTTATCTTATTATATTTTCCCGTATTTTCCCT CAATGCAG[A/C]
7598j	208 A T ---	---	AAAGGTAAATCAAAGTCCCTCTATAAATTATGATTTACAAAAGACACCCCAAGCCAAAGGAACTCA ATGAAATAAGCCGCTAACCCAGATTTTACCTTGGAGAAATGAAATATTCTTGAGGATGCCCTTTTA ATATTTGATCCCAATTATGTGAGAGATTTTCCCTGATATGTTATCTTATTATATTTTCCCGTATTTTCCCT CAATGC[A/T]GA
7598i	192 G T ---	---	AAAGGTAAATCAAAGTCCCTCTATAAATTATGATTTACAAAAGACACCCCAAGCCAAAGGAACTCA ATGAAATAAGCCGCTAACCCAGATTTTACCTTGGAGAAATGAAATATTCTTGAGGATGCCCTTTTA ATATTTGATCCCAATTATGTGAGAGATTTTCCCTGATATGTTATCTTATTATATTTTCCCGTATTTTCCCT CCTCAATGCAGA
7598h	144 C T ---	---	AAAGGTAAATCAAAGTCCCTCTATAAATTATGATTTACAAAAGACACCCCAAGCCAAAGGAACTCA ATGAAATAAGCCGCTAACCCAGATTTTACCTTGGAGAAATGAAATATTCTTGAGGATGCCCTTTTA ATATTTGATCC[C/T]AATTATGTGAGAGATTTTCCCTGATATGTTATCTTATTATATTTTCCCGTATTTT CCTCAATGCAGA
7598g	142 C T ---	---	AAAGGTAAATCAAAGTCCCTCTATAAATTATGATTTACAAAAGACACCCCAAGCCAAAGGAACTCA ATGAAATAAGCCGCTAACCCAGATTTTACCTTGGAGAAATGAAATATTCTTGAGGATGCCCTTTTA ATATTTGAT[C/T]CCATTATGTGAGAGATTTTCCCTGATATGTTATCTTATTATATTTTCCCGTATTTT CCTCAATGCAGA
7598f	120 A G ---	---	AAAGGTAAATCAAAGTCCCTCTATAAATTATGATTTACAAAAGACACCCCAAGCCAAAGGAACTCA ATGAAATAAGCCGCTAACCCAGATTTTACCTTGGAGAAATGAAATATTCTTG[A/G]GATGCCCTT TTAATATTTGATCCCAATTATGTGAGAGATTTTCCCTGATATGTTATCTTATTATATTTTCCCGTATTTT CCTCAATGCAGA
7598e	83 C T ---	---	AAAGGTAAATCAAAGTCCCTCTATAAATTATGATTTACAAAAGACACCCCAAGCCAAAGGAACTCA ATGAAATAAGCCGCTAA[C/T]CAGATTTTACCTTGGAGAAATGAAATATTCTTGAGGATGCCCTT TTAATATTTGATCCCAATTATGTGAGAGATTTTCCCTGATATGTTATCTTATTATATTTTCCCGTATTTT CCTCAATGCAGA
7598d	77 C T ---	---	AAAGGTAAATCAAAGTCCCTCTATAAATTATGATTTACAAAAGACACCCCAAGCCAAAGGAACTCA ATGAAATAAGC[C/T]GCTAACCCAGATTTTACCTTGGAGAAATGAAATATTCTTGAGGATGCCCTT TTAATATTTGATCCCAATTATGTGAGAGATTTTCCCTGATATGTTATCTTATTATATTTTCCCGTATTTT CCTCAATGCAGA

7598c	56 A G ---	---	AAAGGTAAATCAAAGTCCCTCTATAAAATTATGATTTACAAAAGACACCCAAAGCCA[A/G]AGGAAC TCAATGAAATAAGCCGCTAACCGATTTTACCTTGGAGAAATGAAAATTAATTTCTTGAGGATGCCTT TTAATATTTGATCCCAATTATGTGAGAGATTTTCCCTGATATGTTATCTTAATATATTTCCCGTATTTT CCTCAATGCAGA
7598b	47 C G ---	---	AAAGGTAAATCAAAGTCCCTCTATAAAATTATGATTTACAAAAGACA[C/G]CCAAAGCCAAAGGAAC TCAATGAAATAAGCCGCTAACCGATTTTACCTTGGAGAAATGAAAATTAATTTCTTGAGGATGCCTT TTAATATTTGATCCCAATTATGTGAGAGATTTTCCCTGATATGTTATCTTAATATATTTCCCGTATTTT CCTCAATGCAGA
7598a	30 A G ---	---	AAAGGTAAATCAAAGTCCCTCTATAAAATT[A/G]GATTTACAAAAGACACCCAAAGCCAAAGGAAC TCAATGAAATAAGCCGCTAACCGATTTTACCTTGGAGAAATGAAAATTAATTTCTTGAGGATGCCTT TTAATATTTGATCCCAATTATGTGAGAGATTTTCCCTGATATGTTATCTTAATATATTTCCCGTATTTT CCTCAATGCAGA
7998c	116 A T ---	---	GTGTTGATCTCACTGGGTGCTGCAGGCCGGAGCTGTTCCCTATTCAGACATCTTCCAGCTCTCCTCTGTA ATACCTTTAATGAATGGGTGATGCTCTATCTCAAGGTCCTCCCAATA[A/T]CCTTGAGGTTCCCT
7998b	94 A C ---	---	GTGTTGATCTCACTGGGTGCTGCAGGCCGGAGCTGTTCCCTATTCAGACATCTTCCAGCTCTCCTCTGTA ATACCTTTAATGAATGGGTGATGCTCT[A/C]TCTCTCAAGGTCCTCCCAATAAACCTTGAGGTTCCCT
7998a	75 A T ---	---	GTGTTGATCTCACTGGGTGCTGCAGGCCGGAGCTGTTCCCTATTCAGACATCTTCCAGCTCTCCTCTGTA ATACCTTT[A/T]ATGAATGGGTGATGCTCTATCTTCAAGGTCCTCCCAATAAACCTTGAGGTTCCCT
8071	119 A G ---	---	AAATACAGAAATTTTATTTAGAACTGTTTAAAGTAGAAAAAACCCCTGTCAAGAAAGACCCAGGTGG AAAATGGGTCCCAATAAAATGGAATTTTAGGGCAACAAAAGCTAAAAGGCC[A/G]CAAAAAGAGA AATAGCACCACTGTCAATTTGAACAATGGCTAGTTACTTGCAATTTTGGCATTGTTAATCACTGAATC TGGGTTTTCCTCTGAAATCCACACAGAGCATGCACTACACAACATTTTATCAT
8467b	93 C T ---	---	AAGGCTTTCCTCTAAACATCAGTCTACGGAGAAACTGGGAAAATCCTGGATATTTGGCTTATCATT TGACGCAAAATCCACTTTGCTGTAA[C/T]GGTCAATCCGAACCTCCCTTCAGAGAGCAAGCAAGCAAAA TTAAGTGTGATACTGGAGCTTATGCATGCAAAAAGCTTGCAAAAAGTATTAAAGGAAAAATTACTG
8467a	70 A G ---	---	AAGGCTTTCCTCTAAACATCAGTCTACGGAGAAACTGGGAAAATCCTGGATATTTGGCTTATCATT TG[A/G]CGCAAAATCCACTTTGCTGTAAACGGTCAATCCGAACCTCCCTTCAGAGAGCAAGCAAGCAAAA TTAAGTGTGATACTGGAGCTTATGCATGCAAAAAGCTTGCAAAAAGTATTAAAGGAAAAATTACTG
8498	84 C T ---	---	AGGGTTCAGGGTTTGGTTTAAATCAGGCTGCACACCTTTCAATCAATCTGACATCTCTATGTCA AACTGGCTTCAGCTAG[C/T]AATACCTTCAATTAATCGAAAAGAAAAAATTCCTTTAAGGAAAAAA AATCCAGTTTAAAGAACAAATAACATTAGTCTTTAAATAAAAGGAGGGCTAATGTTTCATGTTGCT TTATACATCCTTCTCCTCAATACAGAACCCAGGAATGTAATTTTCTCTAACTCAG

WI-18562	29 G A ---			CTAAGGAAAAATTTAATGATGGAATATC[G/A]ACAAATATTCAACATCATTTAAAAACAAAGTAG CTTCTCTATTTACATAGCTTAGTTGGGATAGAAATAGAACATAATGTTTACAATGATTCTTACATT TAGCATTAATCAGAAACGA
WI-18618	51 A C ---			ATAGCAGACTTTTAAATCAATGCCAGAGACAAAGTGAGCCGAGCTAAGAAC[A/C]CGCTCAGCTTCG TTACAATGAAGAAATGGTTTCCCTTCGATGCAAAAGTATAATTGTAACCCACAGTGCTCGCACAGTTT AC
WI-18683	22 C T ---			TAACTGTTTCAGGACTGGACTC[C/T]GGTCCCCTTTATTGAGACTGACAGGCCAGTGGGTCCACCCAAA CAAAATAAATTTCTCTCCCAAGCCTGCCTGCAGT
WI-18520	75 G A ---			GACTTTGGTGATTTAATGCTTTTCCCTTAAATATGAGAAATAGGTGTAATTTCTCCTTTTGTCTTTT ACTACA[G/A]CCGGAGTGGTAAATACTACCTACTGCCAAACACAGGGCATCCACTCTGTCTTCAA TGCCTCTCCGTGAGAC
WI-18563	94 A G ---			AAATAAAGTTTTATTGGCACACAGCCAAAGCCACTGGATGACACATTTGCCACGGCTCATCTTGCAA TACAATAGCAGGGTTCACTAATGTGAC[A/G]GACATGGTGGCTCACAAAGCCAAAGATAATT
WI-18582b	69 T A ---			GTCCTATTTCAATTTAGCTAGACCCATTTCATCTGTTTAAATGGCTACATTTGTTTTCATTTGAGAC TT[A/GTGCATAATTTAATTAATCAGTGCCATATTGAAAGACATTTGGATGTTTCCCAG
WI-18723f	94 G A ---			AACTTTATTGATCTGACGATCAGCGATTAGTTCTCATCCACATTTGACTGTCTGTAGATTTTGAAAG TGGTAACAGGTACATAGGTAACCAA[A/G]ATATATAGCTTATTTGGTGAATCTTCATCCT
WI-18723e	71 T C ---			AACTTTATTGATCTGACGATCAGCGATTAGTTCTCATCCACATTTGACTGTCTGTAGATTTTGAAAG TGGT[C/A]ACAGGTACATAGGTAACCAAAGTATATAGCTTATTTGGTGAATCTTCATCCT
WI-18723c	96 A G ---			AACTTTATTGATCTGACGATCAGCGATTAGTTCTCATCCACATTTGACTGTCTGTAGATTTTGAAAG TGGTAACAGGTACATAGGTAACCAAAGT[A/G]TATAGCTTATTTGGTGAATCTTCATCCT
WI-18619	44 G A ---			TTTATTACAATATTAGGTGGCACAAATAACTAACAGCTTCTGA[G/A]ACAGGAGGTAAACATTCTCA TAGACTTTGCAACTCAGCCAGAAAGTAAAACTCGAAATA
WI-18715	76 G A ---			TTATTCACAAAAGTGATATTGCAGAGGGTCTGGGGCTGTACATGGGCAGGGGCTGGTGAGCTTTG TACATGG[G/A]CTGGGAGACAAAGGAGCCTCCAGGTGGAAGGTATTTTAAATAAAAAAATAA TGGAGCTACAACCCACCC
WI-18535	107 G A ---			GTAAATAAAGTTTTATTGGCACAGCCACGCTCGTTCATTATATGCCATTGACATCTGCTGTGCCCT ACACAGCAGGGTGGGACCTGCTCTTCACGGGAGAGTA[G/A]TTGTTTAAAGCAGTGGTCCCCAAC CTTCTGTGTCCTCCCGTG
D17525	107 C T ---			AGAGTGGTCAGAACACAGCCGAATCCAGGCTCTATCACTTACTAGTTTTCAGTTCTGGGCAGGTGAC TTCACTCTTCGAACTTCAGTTTCTCATAAGATGGAA[C/T]GCTATACCTTACCTACCTCGTAAAA GTCTGATGAGGAAAGATTAACTAATAGATGCATAGGACTTAACAGAGTGCATAGCATACACTGTTT TCAATAAATGCACCTTAGCAGAAGGTGATGTGTCTACCGGACGACGGAAG

DWU-133c	313 A G ---	---	TAATTGGCCACTGCCCTTATTTATACAAAACAGAAATGCTCATGACTTTTTATGTTACCATCCT TTAATAGATCTCATACACCAGAAATTCAGATCATGAATGACTGACAGAAATATTTGTTGGCAGTCCT GATTTAAAACCTAAGACTGGCTTGTTGTTAAATGAATATGTTGAGTTTGAATTTAATAGTAACCTC AATTCAGTAAATGGTATCACTCGTTTACCCCTTTTAAAGATATGATTAGACT
DWU-133b	236 T C ---	---	TAATTGGCCACTGCCCTTATTTATACAAAACAGAAATGCTCATGACTTTTTATGTTACCATCCT TTAATAGATCTCATACACCAGAAATTCAGATCATGAATGACTGACAGAAATATTTGTTGGCAGTCCT GATTTAAAACCTAAGACTGGCTTGTTGTTAAATGAATATGTTGAGTTTGAATTTAATAGTAACCTC AATTCAGTAAATGGTATCACTCGTTTACCCCTTTTAAAGATATGATTAGACT
DWU-133a	199 C T ---	---	TAATTGGCCACTGCCCTTATTTATACAAAACAGAAATGCTCATGACTTTTTATGTTACCATCCT TTAATAGATCTCATACACCAGAAATTCAGATCATGAATGACTGACAGAAATATTTGTTGGCAGTCCT GATTTAAAACCTAAGACTGGCTTGTTGTTAAATGAATATGTTGAGTTTGAATTTAATAGTAA[C/T TTCCAAATTCAGTAAATGGTATCACTCGTTTACCCCTTTTAAAGATATGATTAGACT
DWU-36	102 C T ---	---	ATGAGATCCTTTAAATCCTTCATGAACGTTTGTGTGGTGGCACCTCTACGTCAACATGAAGTG TGTTTCCCTCAGTGCACTGGGAAGATTTCTACC[C/T]GACCAACAGTTCCTTCAGCTTCCATTCGCC CCTCATTATCCCTCAACCCCGCCAGGCTGTTATACAGCTCAGCTTTTGCTTTCTGAGGAG AAACAAATAGACCATAAAGGGAAAGGATTCATGIGGAATATAAAGAT
DWU-387	169 G T ---	---	GTGTATAAATGCAACTGTTGATTTCCCTCAACATGGCTCACAAATTTCTATCCCAATCTTTCTGAA GATGAAGAGTTTAGTTTAAACTGCCTGCCAACAAGTTCACCTCATATATAAGCATATTTTAA CTCTTTGAGGTGAATATAATTTATATACAAATG[G/T]AAAAGCTTCTTTAATACTAAGTATTTTCA GGTCTTCACCAAGTATCAAAAGTAAATACACAAATGAAGTGTCAATTATTCAA
DWU-447b	172 --- ---	---	ATTTTAGTGTCTTTGCGTTAAAAATCATTGCAAAGTATTCTGAAGTGTCAAGCTGCCAGTCAGAT GGGCTGTTGCCATTTAAAATCACTGTAAATTAATTTAGTTGATTAGAGCACAAAGCTTAGCTAATCAA CCATTATTTTCAATTTGTTGTTCTAAGAGGATTGANAATCAGTTTAGTTAAATGCTTTCTGTTAG GCCCTTCTTTCTTACAATGAAGAGATGATTTCTTAGTTATGGTTA
DWU-447	85 A G ---	---	ATTTTAGTGTCTTTGCGTTAAAAATCATTGCAAAGTATTCTGAAGTGTCAAGCTGCCAGTCAGAT GGGCTGTTGCCATTTAA[AG]ATCACTGTAAATTAATTTAGTTGATTAGAGCACAAAGCTTAGCTAAT CAACCATTAATTTTCAATTTGTTGTTCTAAGAGGATTGANAATCAGTTTAGTTAAATGCTTTCTG TTAGGCCCTTTCTTTCTTACAATGAAGAGATGATTTCTTAGTTATGGTTA
DWU-476	63 C G ---	---	GTAAAAATTCAGTTTTTCCAGTTCCTCTTTTGTGCTGCTCTCAATTAGCGTTTAAGGTGAG[C/G]AT AAATCAACTGTCCATCAGGTGAGGTGCTGCTCCATACCCAGGGTTCTTCATGAGTAGTGGGCTATGCA GGAGCTTCGGGAGATTTTTT

DWU-505	67 A T ---	---	TCATA TAGG CAGTATCTCCTCTAGCTAGTGCCTACAGAAAAATCTATCACCATACAAAATTA A/TJTGCA GTATTTTAAAGCACAGGTGTACCGAAAAGTGTGAAAAGTCTGAATTTATGGGTT CTATGCATGCAATTTTGCCTAACCTAGAGAAAGAGTTTGATAAAATTTTACCAGCTTTGAAGATGGAT TAACITTTGACITTTGAGCTTTAAACITTTAA
DWU-512	131 A G ---	---	AAAATCCAGGCATTTGGAATCTGTTTTTCATGATTTATAGAGGGTTTACACAAAGTGCCACTTATTAA AGAGCTTCCACAGTGAAGATGGAGAAGGTGAACITGCTTTGAATATTTCCAGATGTTTGGTC[A/G] TGCGTATGGCAGTGAGCAGGTATGTTTGTCTTTGCTTGCACTGAAAAATTAATTTGCTATCAAGAGC AAACTATGAACGGTTTTTTATTCAAGATGTCTCCAGAGTGAAGATGCCGAG
DWU-525	97 A C ---	---	AACTGCATATAGATAAATTATCCAGGATGTGTGGCTCATTTCTTCAGCTTGTTTCTATACITGTTGTA ATATACAGTTTTTGTAAACCATATGATTGA[A/C]AAGAAGAAAAGTCTATGCTTAGGCCAGTCAGTACA CCCAATTTTAAAAAATAACATATCTTGCTTTCACAAATATAGTTGAACAAGATTTCCCTAAAAAT CCACCAGGATTAATCTCTAAAATCTAGTCTCTGATTTCG
DWU-59	94 C T ---	---	CATTTCTTTGTAAAGGTAAATGGACTCACAAAGGGGAAGAACATGCTGAGAATGGAAGTCTACCGG CCCTTTCTTTGTGAACGTACATTGGC[C/T]GAGCGGTGTTCAAGTCCCAGGTGGCAGACTCGTTTTG GTAGTTTGTTTAACTTCCAAGGTGTTTACTTCTGATAGCCGGTGATTTTCCCTCCTAGCAGACATG CCACACCGGGTAAGAGCTCTGAGTCTTAGTGGTTAAGC
EST11	68 C -- ---	---	CTTGATCATGGGTGGAAATTTTGTTATCTGGGCTTCATGGGATGCATAAAATTTTCCAGTTGGTAAG CAGCAGGTGCCAGGGTCTGGATCAGAAAAAAGGCA
WI-19856b	63 C T ---	---	CACACTGGCATCTAGGCTTCGCTGCATTGCAGAAAGGAGAGCCAGGTCCCTCCTGGAGAA[C/T]G CTGCGTTCCACAGCCCCACACCGGCTTTGCACACACAGGCTGTTGAGGCAGGAGGTGGTAAAGACGT AGCTGTAGACCCAAAGCAACCACAGCCCTGGGACCCCTGCGGGAGAGGAGCAGCTTTAGAACATGGAA AAGTGTGGTCATCCCATCATTAGACAAGACACATCCTACATAATAAAAAAGT
WI-18014	40 A G ---	---	TCCATTTACATTTGGTGGCAATTTGTTGAATAGCTACAGAA[A/G]GAATGAAAGTGCACCATCAGAGT GTAATTAGGTCTGTGTGACCCAGGAAGTGTCTGTTAAACAGAGATTTCTCAAGGGCAAAGTGGCTTCT A
WI-18036b	97 T A ---	---	TTCCAATGTAAAGTCAAGTACCAAGTTAAACTTCTAGAAAATACAAAGAGAACATGATAAAATCTG ATCACAGTGGAAAAATTTTAATCTTTTCATAA[T/A]CTGACAGGTCAAGTAAAGCTAAAGGAAACATAT TAGGGATCTGAAGG
WI-18036a	27 T C ---	---	TTCCAATGTAAAGTCAAGTACCAAGTT[A/C]AAACTTCTAGAAATACAAAGAGAACATGATAAAAT CTGATCACAGTGGAAAAATTTTAATCTTTTCATAATCTGACAGGTCAAGTAAAGCTAAAGGAAACATAT TAGGGATCTGAAGG
WI-18046	72 C T ---	---	TGTAAGGTGACTTCTATAAGCTTCTTAAACTGTCAAACITTTTCACTTACTGAGATTTTTCAGGCCAAT GTGTC[T/T]TTGGTCTGAGATTTGATTATCAGCTGGGTAAGTTAACCTGTTCTCTGTTTCA

WI-18063	105 G A ---			AGGCTTTAACTGATAACAAATTTGCCCTTTAATACATACAAAACTCTGCACCTTTTCATTCCTCCTTC CCATGTTTTCTGATTTGATGTAACTTAAATTTGT[G/A]TCCCTTTAACAATATACTGTAGCTGCA
WI-18078	86 A T ---			AGTTGAAAGATCAGAGAGGTTATGGTTGGTAGCTAGCTGAACCTCAGATTCAAACCTGGTCCAGTG TTGTTTTTTCAGCATCAG[AT]GTCCTAGCCAAAGTTGATCTCTGCAGTATCTACATGTGGT
WI-18091	90 T C ---			CCAAAGCTCACTCAGTATTTAATCATCTGCTAATTCATCCTTTGTTAATCCATCAGACACTGTGGT TTTCATCTCTAGAAGTTTGACIT[C/GGGCCCTTTTATACCTTCCATATCTCAACTTGTAAAGC
WI-18119	38 T C ---			GCAATCTGTAAACAGTTTTGGTAGTGGTATTACAGAGGAT[C/TTGTGAAAATGGATGGAGTACTTAC CACTATTTTCATCTGCTCTGAAATAGTTCACTAACCAAACTACTGACAACAGITTAATTTGGTCTT
WI-18142	66 T G ---			TTCAAGATAATTACAATTGGAAGGGGACCATAAATTCACATTTTAAATCGAAAAATAATCTATATAC[ T/G]CCCAATAAATCACAGTAAATAAGCTTCAAAAAGCCTTAAGACACCAAAAAGAGGAAAA
WI-18178	68 T C ---			GCATAGGGTTGAGGGGTGTACAAGAGGAGAACCCAGATTCACTCCATGCCTGGAGGTTAGTCTGGGG G[T/C]CGGGGGGATGGACACAGACAGACACATAGATCTGGCATCTGATAGCAGGGCATACAG
WI-18244	35 G T ---			TCAATCTGAAAACCTGCTGTAGCCAGCATGGGGT[G/TTGGGGAGGTGATTAATGGCTGGGGAAGATG GGCACTACCCGACAGCAGCATCTAGCACACAGTGACAGGGACGTTGAGGTGGCAGAGGGCTTT
WI-18245	115 G A ---			ACAGATGTCAGTTGTTGAATTGGCCCATTAAGTATGGGGCTTTCTGTTAAAAAGTCAATCCAAA AGGCTTGGCAAGAGTTTGTCTATACACGGGAGGACAGAGAAACATGA[G/A]CTGGGGAGTAGGCTCT GACAGAAGTGGGCTGTC
WI-18261	26 G A ---			GATTTGAAGGGATTGCTTTATTTAAAC[G/A]TGAAAAAGCGTGATAGAGGAACTGTTTAAGATAAACAA CTTATAATACTCCCAATTGTAGAAGTGAAAGATTG
WI-18268	88 C T ---			TAGGAGGGAAGAGGAGGTGGCTGCCCTGGGCCCTCAAGACATGAGAAAGCGGTGGCTTCCAAAGC TTCTTACTTCCCCCATAGAT[C/TTCTGACAATGTGCTGCAGAAAGCCTCCAACTGGAAC
WI-18299f	107 C A ---			TCACAAGTCAATCTCCCATCCAAATGACAGTTTGTCTAAGATCATTAACCTGGTTGCCAATTTTTT ATCTATTTGGGCTGAGAAATCCACAAATTTTGA[G/A]GTAATCTTTTGCCAAATTAATGACATATTCTG CAG
WI-18299e	101 A G ---			TCACAAGTCAATCTCCCATCCAAATGACAGTTTGTCTAAGATCATTAACCTGGTTGCCAATTTTTT ATCTATTTGGGCTGAGAAATCCACAAATTTTGAAGAAATCTTTTGCCAAATTAATGACATATTCTG CAG
WI-18299d	77 G A ---			TCACAAGTCAATCTCCCATCCAAATGACAGTTTGTCTAAGATCATTAACCTGGTTGCCAATTTTTT T/GATCTATTTGGGCTGAGAAATCCACAAATTTTGAAGAAATCTTTTGCCAAATTAATGACATATTCTG CAG
WI-18299c	67 T G ---			TCACAAGTCAATCTCCCATCCAAATGACAGTTTGTCTAAGATCATTAACCTGGTTGCCAATTTTTT T/GATCTATTTGGGCTGAGAAATCCACAAATTTTGAAGAAATCTTTTGCCAAATTAATGACATATTCTG CAG

WI-18299b	52 G A ---	---	TCACAAGTCAATCTCCCATCCCAATGACAGTTTGTCTAAGATCAATTAACATTG[G/A]TTTGCCAAATTTT TTTATCTATTTGGGCTGAGAAATCCACAATTTGAAGAATCTTTTGCCAAATTAATGACATAATCTG CAG
WI-18299a	48 C T ---	---	TCACAAGTCAATCTCCCATCCCAATGACAGTTTGTCTAAGATCAATTAACATTGTTGGTTTGCCAAATTT TTTATCTATTTGGGCTGAGAAATCCACAATTTGAAGAATCTTTTGCCAAATTAATGACATAATCTG CAG
WI-18307	76 G A ---	---	TCAACTGTACCAAGTTTAGCAGCAAGAGGATACCTCTTAGAGACTTTCAGTGGACTTAAACTCAG TTTCCGCTG[G/A]TGCTATGTAAGCATCCACGATGGTTTATTGTACTCTGCAATCTGCTTGGTCAC
WI-18324	72 C T ---	---	TTTGGTATGAAATCTTTCTCTGACATTTACCAATCATCACTTAAACTCCGGGGGTGGGTACTGATT TATC[C/T]TAGATCCAAATAAAGCATGCAGAAGTG
WI-18350	48 T C ---	---	ATGAAAGTCACCTCAATCATAGGGTCAAGAGAAAGAATGTTTTCAGAT[C/T]TAAATCTATGAAAA GGTGTATCTGCTTGCAATTTAAGAAACAACACAAGTCA
WI-18395	77 G C ---	---	TCCTGACATGATCTGTGAAATAACGTGATTGGTTGAAATTCCTGGAATAATTTGAAGAATAAATTG ATTATTCAG[G/C]TGTCATTGGTTTATACATACTCTCTCTCTTAATGCAAGCTATG
WI-18398	62 G T ---	---	TGCAGTGGCAAGACACTCTCTCGAGGAAAAAAGAAAGAAACAACTCAAGGGTT[G/T] GATAACATTGCCAGTATAACCAATAATTCAAAACAGCAGAGAATTTGGAGGATAATTTGTT
WI-18396	21 C A ---	---	CTCGTTGGTATCTCTCATCC[C/A]TTCTCTTTCGCTCTTTCTAAAATTAAAGAAAGCAATGGAATT TTAAAAGATCATCTAAGAAATAAGAACTTACATATGTAACATTTAACTTATCAACTTGACAAAAGTC AATGAAAA
WI-18409a	20 C A ---	---	AAGATGGGAAAGAGGAAATC[C/A]TTTTCTTAGAGATTTTTTCCCTTTAATCCTTTTCAAT TCAAAGGATCATCAAAGGAGCAGGTGCAGAGCTCTGGGCCCCAGAGCCCCCAAGTGCTA
WI-18442	62 C T ---	---	AAAAAGGAAAGAAAGGATGGAGTAAGAGAGAGAGACAGAGGAGGAAACAAAATAAGTTTCTGG[C/T] JTTGGCTGATCTGGGTGATCAGGTGGACACTATTATCCAGAGGGGAAACACAGAGAAAAAAGG TTTATAGGTGGGAGAGAGGA
WI-18452	38 G A ---	---	TTGATGTTAATACTGTCAATCTGGAGATCGGCTAAAAT[G/A]AAGCATAGTTATTATTAGCTTTGG TATATTCTGCGACAGATTTAAACAAGTAAGACATATATCAACCTCATATTTTCCAACCA
WI-18489	102 A C ---	---	ATATAAGCTGGAGACTGTGGAGGTGAGAGGCAGTGGGACTAGCTGTGAAAGAGAGAAATGTAGC AGTAGTAAAGATGAAAGACTGCAAGGATTCAAACA[A/C]GGTTATGGCAATAGAGGTGAAAAAGAAA AGGCCATATAAA
EST5b	93 A ---	---	CTGGTGGGAGGAAACAAATTGTGGTATATTCATACAATGGAAAACTCTTCAGAAATAAGAAAGGAA CAAACTCACTGAATCACACAACATGGACAAATCTCAAATCATATGCTGATGGAAAGAAACCATTC TAAGAATACACAGTACAT



EST5	93 A ---	---	CTGGTGGGAGGAAACAAATTGTGGTATATTCACAATGGAACCTCTCAGAAATAAGAAGGAA CAAACCACTGAATCACACAACATGGACAAATCTCAAAATCATTTATGCTGATGGAAGAAACCAATTC TAAGAATACACAGTACAT
EST6	48 C ---	---	TTAGCTACTTTTCAGAAATGAAGGAGAAAATGCATTATGTGGACTGAACCGACTTTTCTAAAGCTCT GAACAAAGCTTTTCTCTTTTGCACAAAGACAAAGCAAGCCACATTTGCAATTAGACAGAT
EST8	158 A ---	---	GGACAGGACCTCTATCCCGCTGGTGCAGACGGCTGATGGACTAGGCCCCAGGGGATACTGGGCC CTCTTCTAGGGGGCTCTCCAGGACCCAGAGCTGTCTCTTGGAGTTCCCTAGAGCTGTGCGGCCA GATAGCTGTCTGAGTTGCAAGCACGATGGAGATTGGACACTGTGTGCTTTGGTGGGT
WI- 18740c	104 GT ---	---	TCCTCATTGTTGGGGATGATGAGAAGAAATGATTTGGGAAAATTAAGTAACAACGACCTAGAAAAGT GAGAACAACTCATTTACCACATGATATCCAGTAGTG[G/TAATAATTCATTTTGGATGGCTTCTATTTT TGGCCA
WI- 18740b	96 C G ---	---	TCCTCATTGTTGGGGATGATGAGAAGAAATGATTTGGGAAAATTAAGTAACAACGACCTAGAAAAGT GAGAACAACTCATTTACCACATGATATC[G/AGTAGTGGATAATTCATTTTGGATGGCTTCTATTTT TGGCCA
WI- 18985a	105 CT ---	---	CCAAAGTCTCTGTTGGCTCATAAAGAAGTTTTGGGATGGGAGAGATCCAGACCATCTTGGGGCA GCCAGGCCCTTGCTTCATTTACAGAGGTAGCACAA[C/TTGATTCACACACAAACCCCTTCCCC TTTTAAATGATTCTGTTCTAATGCCATAGATCAAAGGCCTCAGAAACCATTTGTGTTTCTCTCT TGAAGCAATGACAAGCACCTTACTTTCACGGTGGTTTTTTTCTTAT
WI-18746	114 GA ---	---	GCCAGCAGCTGAAGTCTCTTTTCTCTCTCGGCTGGAAGAACATCAAGATACCTTTGCGTGGATCA AGCTTGCTGACTTGACCGTTTTATATTACTTTTGTAAATATCTT[G/A]TCCACATTCCTACTCAGCT TTGGATGGTTACCG
WI-19112j	212 GA ---	---	CCGTGTTACACACACACAATGGCAAGCATAGTCGCTGGTACGGCCCGGGGAATATGCCAAGG GACCCCTTAATGGAACACACAGATCAGTAGTGTATCTCATGACAACCAAGAAACCGACGACAAA TCCTTTGCGAGATTTCTCTAGTGGCTTAGAAACATGGCTTTAAGAAACACGGTGATATCTTTGAG GGTGACAAGGG[G/A]TCTCTTCAACAGTCCATACCACTGCTTTGCTCTAG
WI-19092	232 AC ---	---	TGGTGGCTGGCTAGTGTCTACAGAACATAATTTGCCTCTATAGAAGGCTATCTTAGATCATGT CTCAATGGAACACTCTCTCTTAGCCTTACTTGAATCTTGCCTATAATAAGTAGAGCAACACAC ATTGAAAGCTTCTGATCAACGGCTCCTGAAATTTTCATCTTGAATGTCTTTGTATTAACCTGAATTTTC TTTTAAGCTAACAAAGATCATAATTTTC[A/C]ATGATTAGCCGTGTAAC
WI-19057i	175 GA ---	---	CCCATTTATTATAGGCCAGTGATGTCTCAAAGAGTAGAGGAGCGTCTACTGGTCTTTCAACTCCTTCA GTCTTCTGACGGGGACTTTACCGTGACAGCGGAAGTGTATTGTACGTCAGGCCAGCCGAGCCACTG TCTTCATGCAGGAACACAGTGCCAGATCCCCACAGCTC[G/A]TCTCTTCTATCTTGGTTTGGCACA

WI-20103	168 C T ---				TGGGACTTCCAACCTCAGAGGATGTGGGAATCCCAGCTCAAAATGATACAGGATAAACTGGGATGGGCT AGGATGGACAGGCTGTGGATATGGGAGTCATGGGTCAAAGTCTTATCCAGATGGCTCCAGGTACAG TGGGCTTCCCTGGGCTGGAAGCTGGGTCTCCCA[Q/J]TTCATCTGCTCAAGCTTCTTGAAGGAGC TGGTTTGACTTCAACTTGTAGAGCTAGCCTCATCTTTCAGTCAACTGGGA
WI-20441	111 G A ---				GCCTTACCCATTTTGCACATATACATATGCACCACCTTTGCAGTGGCAACATATATATCCACACTA TAAACATACCACATTTATAATCTTGTAAAGGACAAGAAATGGA[G/A]TTGAATAAGTACCCCCCAA CATATACAAGAAAGTTAGCATACTTACCCCGTTTTCTACTACATCAGAGGCAAAATAAGAAATCTTT TAAGAAATCTCAAGACTGGCTCATGGCAAAATGAATATGCTAAATTTGGGGG
WI-19911b	116 A G ---				TGGTTACAAACCTAAGCCCATATACAAAATTAGGAACACATTTAGATGCCTCTTTTGAAGAAGCT TTTAGTCTTTTAACTGAGTTTAAAAAATAACAATGCAATTTTTT[A/G]JACACTGTTTTGAAA ACTTAAAGTGCAGCAATA
WI-20613c	165 A G ---				GTCTCAAGGGGGAGAAAACCTGGTTCTTTTATGTACAAAGCACAGATGTAGGTACAGTATATAACA GATACGTAGTACATCTGTAGTATTAAATGGCATGGGAGGAGGCAGTTAGAAAAACATCTAAAC AGCTCCTTAGAAGGCCAATAATAAGTTGAA[A/G]AAAGGAGTTTCCACGCGCAGCCAGTGTGAGC TGC
WI-20613b	156 A C ---				GTCTCAAGGGGGAGAAAACCTGGTTCTTTTATGTACAAAGCACAGATGTAGGTACAGTATATAACA GATACGTAGTACATCTGTAGTATTAAATGGCATGGGAGGAGGCAGTTAGAAAAACATCTAAAC AGCTCCTTAGAAGGCCAATAATA[A/C]JAGTTGGAAAAAAGGGAGTTTCCACGCGCAGCCAGTGTGAGC TGC
WI-19984	47 A G ---				CAGTAAAGAGTGATTCAGTTGCAGTAATACACTGACAGGTAAAT[A/G]TATAACATTAGAAAA GCAAAATTCITTTAACTTAAGCACAGACTGAACCATCAGGTATGGTCTGAGATCAAGTAATACAGG TAGGCAAGAGTTTTCACACACTGGAAAATGAAGGCAGTTTCCAAATACTGTGAATTTACAAACAT TGGGGGAAGG
WI-20122	135 T C ---				GCCAGTTGGAATATGGCCTATACGAACCAAGAGTGTATACAAAATGGAAGTGGTCATCAGGCAATA ATTGTTTCCTTGGAACTCTGCCCGACTGTCCATGCTCTGTTGGGACTTACACATTCAGTTTGACAGI T/C]TGAAAACCAACTGGAGCTGCTTTTCCAAAGAATGTTCTGTCTTCAAATAGGAATTCATG TTATTCTTCTTGCCTTAAGCTCTTATATCTTTCAAATGACCTAAGCTGA
WI-18846a	49 G A ---				GAGTGCCATACCTTCTCCAGGCCTCTGCCCCAAGAGCAGGAGGTGCCT[G/A]AAGCTGGGAGCGT GGGCTCAGCAGGGCTGGTCACTCCCATCCCGTAAGACCTCCTTCCCTTCCCTCAGCAGGCCAAACATG GCCAGACTCCTT
WI-18959	123 G A ---				AGCAGTGGCCTTATTGCATCCCAACACGCCTCTTGACCAGGCTGCCCTTGTGGCAGCAACGGC ACAGCTAATTCTACTCAGTGTCTTTAAGTGAAAAATGGTCGAGAAAGAGGCAC[G/A]GGAAGCCG TCCTGGCGCTGGCAGTCCGTGGGACGGGATGTTCTGGCTGTTTGAATTCCTCAAGGAGCGGAGCAT GTCGTGGACACACACAGACTATTTTAGATTTCTTTTGGCTTTTGAACC

WI-20146	31 T C ---	---	---	TGAGTCTTCTGTAATTCATTGAGCAGTTAGC[T/C]CATTTGAGATAAAGTCAAATGCCAAACACTAG CTCTGTATTAATCCCATCATTAAGCTGTAAGCCCTCATTTGAATGTGTAATTCATCAATACAGGC
WI-18922	74 G A ---	---	---	TAGGAATTGGTTTACGCGCTGAGGCAATTAGACACTTTGGAAGATGGCATAACCTGTCTCACCTGGAC TTAAGC[G/A]TCTGGCTCTAATTCACAGTGTCTTTTCTCCTCACTGTATCCAGGTTCCCTCCACAGAG GAGCCACCAGTTCTC
WI-18763b	53 A G ---	---	---	TTTCTGTGTTGGGGTCAACCGTACAATGGTGGGAATGACGATGATGTGA[G/A]GTATTTAGAAATG TACCATAATTTTGTAAATTAATTTATGTTTTCTAAACAAATTTATCGTATAGGTTGATGAAACGTCA TGTTTTTGCCAA
WI-18763a	38 A G ---	---	---	TTTCTGTGTTGGGGTCAACCGTACAATGGTGGG[A/G]TGACGATGATGTGAATATTTAGAAATG TACCATAATTTTGTAAATTAATTTATGTTTTCTAAACAAATTTATCGTATAGGTTGATGAAACGTCA TGTTTTTGCCAA
WI-18771b	75 G A ---	---	---	CTCATTTCCATGCCATTGTGGAATTGAGCAGAGAACCTGCTCTCGGAGGATGCCTAGAGATGTTGGG AACAGAA[G/A]AAATAAACTGAGTTTAAGGGGGACTTAACTGCTGAAATTCACCTGTGGA
WI-18771a	57 A G ---	---	---	CTCATTTCCATGCCATTGTGGAATTGAGCAGAGAACCTGCTCTCGGAGGATGCCTAG[A/G]AGATGTT GGGAACAGAGAAATAAACTGAGTTTAAGGGGGACTTAACTGCTGAAATTCACCTGTGGA
WI-18820	70 T C ---	---	---	GGGAAAAATTTGAGACGCAATACCAATACTAGGATTTGGTCTTGGTGTGTTGATGAAATTCAG GCC[T/C]TGATTTAAATCTTTCATTGTATTGATTTCCITTTAGGTATATTGGCTAAGTGAAACTT GTCA
WI-18742b	51 C T ---	---	---	ACAAAGTCCTGTAGCCCCCTCACCTTTCCCTGTTTTCACITTTGCCAATG[A/C]TATCGGGTTTGGTTT TCTTGATTATTAAACGGTTGTGGTTTCCITTTTCCACGGAGTTCAAGTAAAGCCGCTGCAGGAGA GTTTTACC
WI-18882	94 C T ---	---	---	GTGTGTCCAAAAATGGGGTGTGCTCCTGCTACCTTGACCCCTCCCTTTCCCTGCTTCTCTCCTCATCA TCAATCCCAACAACATCCTCTGCCA[C/T]ACACAACAAACGTAAGTTTCAATTTGGGCAAAAATTGA GC
WI-19970b	167 G A ---	---	---	TATAAGCCCGAGTCACAGGACGGCCTGTCTGGCCACAGACAGGGGCTGCCTGTGGAGCCTGCCACCC GGCCCCGGCAGTGCAGTCCAGCGGGGAGGAGCTGCCGTTCTCTGCGAGTTCCTCACTGCGGGGACC AGCAAGGCCCTTCTCACTGGTTGGTCAAAG[G/A]TAGTCACCTTGGCCTGGTGCATCCACAGAGGA TGTTGTTCAAACCCAGAAATCTTTAAACGACTGACCTTCTTAAAAACAGA
WI-19970a	126 T C ---	---	---	TATAAGCCCGAGTCACAGGACGGCCTGTCTGGCCACAGACAGGGGCTGCCTGTGGAGCCTGCCACCC GGCCCCGGCAGTGCAGTCCAGCGGGGAGGAGCTGCCGTTCTCTGCGAGTTCCTCACTGCGGGGG ACCAGCAAGGCCCTTCTCACTGGTTGGTCAAAGGTAGTCACCTTGGCCTGGTGCATCCACAGAGGAT GTTGTTCAAACCCAGAAATCTTTAAACGACTGACCTTCTTAAAAACAGA

WI-19067d	202 T G ---	---	TATTGCTGCTTGCTCACTGCCTGACATTCACGGGACAGGCAAGGCTGCTGCAGCCTCCCTGGCTGTGCACATTCCTCCTGCTCCACAGAGACTGCCTCCGCCATCCACACAGATGATGGATCTTCAGTGGGTTCTCTTGGGCTCTAGTCCGTGGAGAATGTTGTAGGGGTTATTTTTTTTAAATAGTGTTCATAAAAGAAAT/GJACATAGTATTCTTCTCTCAAGACGTGGGGGAAATATCTCATATC
WI-19067c	153 G C ---	---	TATTGCTGCTTGCTCACTGCCTGACATTCACGGGACAGGCAAGGCTGCTGCAGCCTCCCTGGCTGTGCACATTCCTCCTGCTCCACAGAGACTGCCTCCGCCATCCACACAGATGATGGATCTTCAGTGGGTTCTCTTGGGCTCTAGTCCGTG/JAGAAATGTTGTAGGGGTTATTTTTTTTAAATAGTGTTCATAAAAGAAATACATAGTATTCTTCTCTCAAGACGTGGGGGAAATATCTCATATC
WI-19067b	151 T C ---	---	TATTGCTGCTTGCTCACTGCCTGACATTCACGGGACAGGCAAGGCTGCTGCAGCCTCCCTGGCTGTGCACATTCCTCCTGCTCCACAGAGACTGCCTCCGCCATCCACACAGATGATGGATCTTCAGTGGGTTCTCTTGGGCTCTAGTCCGTGGAGAATGTTGTAGGGGTTATTTTTTTTAAATAGTGTTCATAAAAGAAATACATAGTATTCTTCTCTCAAGACGTGGGGGAAATATCTCATATC
WI-19067a	57 C G ---	---	TATTGCTGCTTGCTCACTGCCTGACATTCACGGGACAGGCAAGGCTGCTGCAGCCTCCGTGCTGGCTGTGCACATTCCTCCTGCTCCACAGAGACTGCCTCCGCCATCCACAGATGATGGATCTTCAGTGGGTTCTCTTGGGCTCTAGTCCGTGGAGAATGTTGTAGGGGTTATTTTTTTTAAATAGTGTTCATAAAAGAAATACATAGTATTCTTCTCTCAAGACGTGGGGGAAATATCTCATATC
WI-19106	247 T C ---	---	TAAATCCAGCCCTACCCCTTGTTAGTTATTTAGGAGACAGTCTCAAGCAGTAAAGTGGCTAATTCAAATTTATGGGTATAGTGGCCAAATAGCACATCTCCACGTTAAAGACAGTGGATCATGAAAGTGTGTTTTGTCTTTGAGAAAGAAATAAATGTTGAGCGCAGAGTAAATAAAGGCTCCTTCATGTGGCGTATTGGGCCATAGCCTATAATTGGTTAGAACCTCCTATTTAA/TCTGG
WI-18944	147 A G ---	---	CAAGGCAAAATATCAGGAGCTTTTTTACACACCTACTAAAAAGTTATTATGTAGCTGAAACAAAATGCCAGAAAGGATAATATTGATTCCTCACATCTTTAACTTAGTATTTACCTAGCATTTCAAACCCAAATGGCTAGAAC/JGTGTTTAAATTAATTTCACAATATAAAGTTCTACAGTTAATTATGTGCATAATAAACCAATGGCCTGGTTCAATTTCTTCTTCTTAATAAATTTAAGTTTT
WI-18952	232 G A ---	---	CCCATCCCTGTGAAGGAGTAGGCCACTCTTTAAGTGAAGGATTGGATGTTGTTTCATAATACATAAAGTTCTGTAAATACAACATAATTTATTAAGCCCTCTTCTCACAGTCAAAAGGAACTGGGTGGTTGGTTTTTGTTGCTTTTTTAGATTTATGTCCCATGTGGGATGAGTTTTTAAATGCCACAGACATAATTTAAATAATAAACTTTGGGAAAGGTGTAA/GA/JACAGTAGCCCCATCACAT
WI-18932d	177 C T ---	---	CACACCTCATGCTAGCCTCACGAAACTGGAAATAGCCCTCGAAAAAGAAATGTCCCTGAAGCTTGATCTGATATCAGCACTGGATTGTAGAACCTGTTGCTGATTTTGACCTTGATTCAGTTAACTGTCCCTTGGIATTTGTTTAAATACCCTGTACATATCTTTGAGTTCA/JCTTTAGTACGTGTGGCTTGGTCACTTCGTGGCTGAGGTAAAGACGTGCTTGGGAAGACAGTCTGTGGCTTG

WI-19042	193 A C ---			TTTGTGAGTGTGCCTCTCGCAATGCCCTCAGTAGCATCTCAGTGGTGTGTGAAGTTTGGAGATAGATG GATAAGGGAATAATAGGCCACAGAGGTGAACCTTTGTGCTTCAAGGACATTTGGTGAAGTCCACAG ACACAATTTATAGTGCAGACAGAACTTCAGCAATTTGAATATGTAATAACTCTAACCA[A/C]GGCTG TGTTAGATTGTATTAACATCTCTTTGGACTTCTGAAGAGACCACCTCAAT
WI-18984	208 A C ---			ATTGGCCCTGTACAGTTTGCTTATTATAAATTCATTAACACACTACAGGTGTTGAATGGTTAAAA TGAGGCCCTCCAGTTTCATTTTCAGTTATTTCTGAGTGCAGACAGCTATTTCGCACGTGTTAAAT GTAACCTTATTAAATGAATCAGAAAGCAGTAGACAGATTTGGTGAATACAAATATTGTGATGCATT TATCTT[A/C]ATAAATGCTAATGTCAATTTATCACCTGCGCATGTTTGACT
WI-18851	90 T A ---			GCTTCAATTGGCGATTGATTCAGTGGCCACAAATGTAACAGGTTGGTAGTTGTTACTCATTTTGAAT ATACCTTTTCTTATTGTATTCTT[A]GTAATATAGGATCCTGGAAATGAGACCTGGTGGAA
WI-18821b	76 T C ---			TCAACTGCAGTGTGCTTCCCTCCCTTATAGGGCTGGAATCTGTCTAGGAGCCCTCTCTCGGAGGCC ACAGAGGGT[C]GGGGGTAGCCATTGTGCAGTCATGGCCCGGGGAAACTTGCCAACTTCGTGTCAG GTGCTGTGT
WI-18821a	69 C T ---			TCAACTGCAGTGTGCTTCCCTCCCTTATAGGGCTGGAATCTGTCTAGGAGCCCTCTCTCGGAGGCC A[C/T]AGAGGGCTGGGGTAGCCATTGTGCAGTCATGGCCCGGGGAAACTTGCCAACTTCGTGTCAG GTGCTGTGT
WI-19021a	20 C G ---			ACTCCTCTGCTGTCCAT[C/G]ACTGTCCCTTTGAACCAGGAAAGTCACAGAGTTTAAAGAGAA GCAAAATTAACATCCTGAATCGGGAACAAGGGTTTATCTAATAAGTGTCTCTTCCATCACGTTG CTACCTTACCCACACTCCCTCTGATTTCGTGAGGACGTGGCATCCTACTACGTACGTGGCATAAC ACATCGTGTAGOCATGTATGCTGGGTAGAGAGTAGCCCTCCCTGTC
WI-18908	70 G C ---			TGGAAATTCCTTTCATCTGGAACCATCAGAAACACCCCTCACACTGGGACTTGCAAAAAGGGTCAGTA TGG[C/T]TAGGGAACAATTCATCCTTGAGTCAAAAAATCTCAATTCCTCCCTATCTTTGCCACCC TCATGCTGTGTGACT
WI-19037b	155 A G ---			CACGGTCTCTGCATCGTTACCAGAGCGCCTTCTGGTCTAGCCACGCCCTGTATGACCGCGCAATA TCCCAAAGCTTTTGGGTCTCAAGTCATGCCCGAATTTAGATGCTGTCATTTCTGGAGAGGGTC CCCTCCCTTACGAACACA[A/G]AAACCCAGCCACATGACTAGCACGCTGAGCTCTGCAGGGACCA GTGCAGGCACCTGGGGGTGGAAGTGTGGTGACACAGTGAATGGGAGGTGG
WI-19037a	47 C A ---			CACGGTCTCTGCATCGTTACCAGAGCGCCTTCTGGTCTAGCCACG[C/A]CCTGTATGACCGCGCAA ATATCCCAAAGCTTTTGGTCTCAAGTCATGCCCGAATTTAGATGCTGTCATTTCTGGAGAGGG GTCCCTCCCTTACGAACACAAAAACCCAGCCACATGACTAGCACGCTGAGCTCTGCAGGGACCA GTGCAGGCACCTGGGGGTGGAAGTGTGGTGACACAGTGAATGGGAGGTGG
WI-19064	66 T C ---			TTGAGGAGGTGGGTGAACCTGCTCCTTGGCAGGGATTGTGACACTGCATTGCTGGGCTGTGTTCC[T/ C]CGGGCTCTTCTGGACCTTGACCGTGGATACCAGGCCATGTGCCATGTTTGGTCTCTGGAGGG TGGTGAATAAAGGC

WI-18972a	112 A G ---	---	AGGCTGTGGCTTATGTCACCAACAGAGGGTCTGAGAAGTCTGGCTGGGATGCCCTGGCC CCCTCTGGAAGGCTCTGACAGATGACTGGGCTGGGAAGCAG/GTGTCTTGTGGCCATGGAGCC TCATTGCAAGTTGTTCTGAACACCTGAGGCCCTTCTGTGGCCACCAGGCACACTACGGCTTCTCTCC AGATGTGCTTTGCCTGAGCACAGACAGTCAAGCATGGAATGCTCTTGGCCA
WI-19016b	184 C A ---	---	GTTTGAAAACCAACATGTGCTCTTTTCAGTCATTCACCTGTTTTAATATGACATGGTAGAGAATAAG GTTTATGGCAGGTAATTTTGTAAATGTGTTAAACGGAAGTTCAAAGATTAGAAATACATCTGTGTC CTGAAAACCTTAGATACATAGCCGACTGTATACAGAGGTTCTCAAC/C/AJCTCAACACTATTGAC TTTTGGGCTGGATAGTTCTGTGTGGGGTTTGTCTGTGCACTGTAG
WI-19016a	161 C T ---	---	GTTTGAAAACCAACATGTGCTCTTTTCAGTCATTCACCTGTTTTAATATGACATGGTAGAGAATAAG GTTTATGGCAGGTAATTTTGTAAATGTGTTAAACGGAAGTTCAAAGATTAGAAATACATCTGTGTC CTGAAAACCTTAGATACATAGCCG/C/JTGTATACAGAGGTTCTCAACCTCAACACTATTGAC TTTTGGGCTGGATAGTTCTGTGTGGGGTTTGTCTGTGCACTGTAG
WI-20096	21 T C ---	---	GGTTTGGGGCATTTATTTCT/CJGATAGAGACTGGCACAAGCTTTGGGCTAAGGACACCCGCCCCCC ACCCTCATCTAGAAACAATCTCTCGCCAGACTTG
WI-19591b	156 C A ---	---	TGGGGCAATTTTAAACAACCCAGGCAAAATATCACATATACCTGAATATAAGGTAACCTCAAGCCATG AGTATAAGATTAAAGCAGTTACTTTATTTGAACAAGGAAGTGGCATAAGCAACTCAGTGTGCCC CTTAGGGTGGGAGCTCTTCC/C/AJCTACCACTCCCCACCCCAAGGCATCATTTTGGGAGAAAAA GTGCTCTATCTGGCTAGCTGTGTTAICTAGGGATTGCACCTTCTTACACGG
WI-19591a	45 T A ---	---	TGGGGCAATTTTAAACAACCCAGGCAAAATATCACATATACCTGAATATAAGGTAACCTCAAGC CATGAGTATAAGATTAAAGCAGTTACTTTATTTGAACAAGGAAGTGGCATAAGCAACTCAGTGTG GCCCCTTAGGTGGGAGCTCTTCCCCCTACCCTCCCCACCCCAAGGCATCATTTTGGGAGAAAAA GTGCTCTATCTGGCTAGCTGTGTTAICTAGGGATTGCACCTTCTTACACGG
WI-20310	125 G A ---	---	TCCTCCAGCTCTGTCATCCTTGTCTTGAGGGTCTGTGTTACGGCCCCCTCCAGGCATGGTTTCTCAT TTAGGTAGGAACAAAAGGCCAAAAGAACATACAAAGCCAGCTCTCTAGAGGCTCCA/G/JTCAGAA CTGGACCCCTTAACTACAAAGGAATCTTGGATGAATTTTTCGCGGGCTTCAGGAGCAGGTAGC AGAGCCAAAGTGCACACTCAGGCCATCTCTCCCAATGTCTCCCCGGGG
WI-20860	224 G A ---	---	CTCTCCCCTAAGGAGCCTTGGCTTGCAGCCCCATTACAGAGGATGGAAGTCACAAGACAATGAGT GGAGCCTCATGCCCTCCCATGAGGAAGCCCTTAGTATTGCTGACATCTGCCCTTATCTGTCTCTCT CCCCAGTCTGTACACTTGGGCAAGCAGAGTGGTGGCAGACCCAGCCTTGAGAGCTCTTTAGAAC GGAAGGAAGGGGGTCA/TJG/AJGGTATGGCTTCTGGCTCTCTGGCTT
WI-19359a	39 T C ---	---	GACGTGGACAAAAGGAGGTTTAAATGAATACTTTGTTTTG/T/CJCATGTTCAAAAAAGAGTATTAA ATTTGTGACTGCATCTGTGAATGAAGACACTCAAAAAGCCATGTTTCCAACTTAGGTTAATAATAA GGCTATTTGCCACCCACTCTTGGGGATGCTGCAATATCTGGGCTCAAGTGGGAGGCCACGTG GGAACAAGGCCTCAGAAAAACAAGGACATGCAGCCTCCCTGAGCCAGTTCT

WI-19766b	93 A G ---	---			TGGCCTCAATGACTGGTACATTGGAGAAGCTGTGCAGCAGCATCCTTTCTGTGGTGGCAGGGCAGG AGATGAACCATAGGAGCCAAAGTC[A/G]GACAAACAGAAAGGACACACCAAGCCTGAAACCCCTC CGGACAACAGCAGAGTTACCAGCTGAGGGATGTCCCTGGAGGTTCTGACCCATGAGAGGCCCCCTC ACCTCCTTCACCCCTCCTACCACCAAGCTCTCCGGCAGTCATGGACTTAT
WI-19766a	31 G A ---	---			TGGCCTCAATGACTGGTACATTGGAGAAGCT[G/A]TGACGAGCATCCTTTCTGTGGTGGCAGGGC AGGAGATGAACCATAGGAGCCAAAGTCAGACAAACAGAAAGGACACCAAGCCTGAAACCCCTC CGGACAACAGCAGAGTTACCAGCTGAGGGATGTCCCTGGAGGTTCTGACCCATGAGAGGCCCCCTC ACCTCCTTCACCCCTCCTCCTACCACCAAGCTCTCCGGCAGTCATGGACTTAT
WI-20512d	126 C G ---	---			CTTCCTCTGTTGGCTTGCATTGTGCGATTGGAAAAACCATTGGAAGAGGGACTTCTCTGCAA AACCTTAAAGACTGGTTAAATTACAGGGCCCTAGGAAGTCAGTGGAGCCCTTGACTGA[C/G]AAAGC TTAGAAAGGAAGTGAATTGCTTCTTTGAATATGGATTAGGGCGGGCGTGGGTGGGCTCAGCCT TATTAATCCAGGCACGTTGGGGAGGGCCCAACGCGGGTGGGATCACCTGA
WI-20512c	59 T G ---	---			CTTCCTCTGTTGGCTTGCATTGTGCGATTGGAAAAACCATTGGAAGAGGGACTT[G/J]CCTG CAAAACCTTAAAGACTGGTTAAATTACAGGGCCCTAGGAAGTCAGTGGAGCCCTTGACTGACAAAGC TTAGAAAGGAAGTGAATTGCTTCTTTGAATATGGATTAGGGCGGGCGTGGGTGGGCTCAGCCT TATTAATCCAGGCACGTTGGGGAGGGCCCAACGCGGGTGGGATCACCTGA
WI-19599	230 C G ---	---			GGGCTTAAATTCCTCTGTTGGGACTGGTCTCCAGTTTACAGCAAGGATCGCACCTTTTCC ATAACCCCTTCTACATTGGAAGAGCACACCTTGATACAGAATGGCTCCGTGAAGCTCTTTAAAGC GACAAAGGTAATCACAGCTAACAAAAAGTGATGTGGCTCACACGTAACCAACACCTCTTTTCA GAACAGAGAGCGTTAAAGTAAAGGGA[C/G]TTCCAAGAGTAACACTGCTA
WI-20679	82 T C ---	---			TGTTGAAATAAAAAATTCATGGTCTTAAATGAACTGTATGTACTTCTTTTGAATATCCTTTT TTCATTAAATAAT[C/J]CTAAACCACTCTATGTGTTCAACCTTCTGTTTAACTAAGATATGGGT TTTTGGAAGGCCACAGTCACAGCTCCATGAAGTGGCGAATTGGTCTGTTTTGGAAAAGCTCTC CAGGGTGTCTCCAGAAA
WI-19909a	29 T C ---	---			CCAGAAATAAGCCTGAATATCTCTTT[C/J]TAAAAATAAATTTTCTCTTTGCTCTCCAA GTAAATCTTAAATGAACCTGTTCTAGTCTATTTTAACTAGGCAATTATAACACTACCTAGCGGG TTTTTCTTTATACCTTGTCTGTACTGTGGAAATCAACTAA
WI-20341	221 G C ---	---			TTGAGAGGCTGAGAGAAGGCTGTTGAGACATTGTAATAGTCTTAGGGGCATGAGACATTAGGAAG GCCACAAATTATGAGTAATGAAATGTGGAGGCTGATGAGAAGCTACTGCTCCCAATTTGTTAGCAGGA GGCAGGAAAAGTGATCTGGGCTCTGCGCAGCAAAAGCGTGTGGTAAATATTTGGGTGACGTCATGC ATCCCCCATGCATTGGTTT[G/C]ATGTCTCCAGTGAGCTGTGGGCAAGTCT

WI-20113	60	T C ---	---	TTCTGGTACATGGTAAGTGCCTCAGTATTACTGAGTGAATGAGCAAGACCTGAAATACTGT/CJGGA AACAGTAAAAGCAAAATACCACACAATAGGAGGAATATTTTCAGACATAGGATATTTAAACAT CACTCAAACTACTGGAGCATGATTCAGCAATAAATCTATTCCATAAACAGGTAGATAAATGTCACA GCTTTAAATATAGTTAAGTACAGTTGATCCTCGTTATTTCATGGATTCCGTATT
WI-20895	107	G C ---	---	TGATGGCAAAGTACAAAGGCTCTGAAAGAACAGAGTAACAAGAGCAGCGCAGTGCAGCGTGTGGC CACTTCCACCAGGAGCAAACTTGACTTCATTAAAGGCAAA[G/C]CTTTACTCTGTACTTTTTCCTC CCACATAGTTTAAACCAATAGAAAGGCATTCTATTCTCACACTACTGCTCTCTAAGGTCCTAGGAA TATACTGGTACTATAGGCAACAGATGCA
WI-20721	72	T C ---	---	CCTGCAATCACAAAAGTGGAACCTAGTTGATATTTTGAATCATACTTGATTTAACCACTTCAGAAA TTCTA[T/C]AAAACACTAGCAACTTCCTTTTATCAGA
WI-19415c	161	A G ---	---	CTGGATTTTAATAATTTCTGGCCTAATAACCAATGTAATCAATAAAATTTGGTCAATATCTCCACCTC ATTTCTGCTAACATGTTTTCGAAGATTCCTTAAGTAAGGTATTGACGACTGAGACTAGTCCGGCAAA GTCATGAGACCCCTTAGCTGATCTCAT[G/A]AGTCCACCTCATGAAGGAGATGATTCACACATCTCAA GCTAAGGTATAAAGTGTGGACATACAAAGGCTTACAAGTTTACACTTCCTG
WI-19348c	103	C T ---	---	GCTGCTCACTGGTAGCCAGCCAGCTGCAGGATGGTGGGTAGCAAGTACGATGGGCCATGCACCTTCTG GCGGTCGATGAAGAGACTGTTGGTCATGGCGGTGA[C/T]GCTCTTCCAGGCTCATATGGATGTCCT CGAGTTGCACAGGGAACTGCTCTGCTGTAGAAAGCTTCTCC
WI-19348b	98	G A ---	---	GCTGCTCACTGGTAGCCAGCCAGCTGCAGGATGGTGGGTAGCAAGTACGATGGGCCATGCACCTTCTG GCGGTCGATGAAGAGACTGTTGGTCATGGC[G/A]GTGACGCTCTTCCAGGCTCATATGGATGTCCT CGAGTTGCACAGGGAACTGCTCTGCTGTAGAAAGCTTCTCC
WI-19635	98	A T ---	---	ATTAGTTCGTGGGCCACATTCAAAGCCATCCACACAAGCTCTTGTAGGCCATTGTAACACAATG TTAAAAGGTACAGTAAAATACAGTATTAT[AT]ATCTTATTGTGACACGGCTGTGAGGCTCAT GTTGAATGAAGCATCCTTAGGCAGCACGTGACTGCATGCAGATATGTGCTGAAAGAACCTTTGCCTT T
WI-19641a	46	A G ---	---	TCCAAATTTTCAGAAACATGTTCCATGTTTATTGTGATAAGCACTAG[A/G]TATTATAGTCTCATGTTT TTAATTTATGAATAACGCTGATTTCATTTGATTTTGTATTTACAGAAGATGTCAGGGCTATCTCATTC AGTTATTAATAAATGGATCAGAGTAGTAAGTCAAGAATAAGTGCATAATGIGGTTTAAATTTTAAAA AATACTCAGAATGAGTAGTATTTTAAATTTTAAATTCATCCACCCACTTG
WI-19642b	52	C A ---	---	ATATAGAGTACCATCCATGGTTTCAAGCATGGCTGGACACATTATCCCCCT[C/A]GGGTAAACCAG GACTATTGCATGAGCATTCCTTAATACGATTTTGTATGGACACAAGTTTTCATGCTATTA
WI-19673b	180	C T ---	---	TCTGCCATGATCACATTGTGATGAAGAACATGATGGTCACTAGTAGGTAACTTTCTGTGTCATTGCCT TACTCTCAGTGAGGTGCTAGTGGATTTACCTACCCCTGCTTTTGCATCACCAGTGAATCTAATAGT GAAAAGGCCAAATGATGCTCAGTATCACTGTGAAAAACATTTTTC[C/T]CTTGACCCAGCTGAAAGAA TCTTGAGGAGCCTGAAGGCTTCAAGGTCCACACGTCAAAAAACACAGCCC



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WI-19673a	35 G A ---	---	TCTGCCATGATCACATTGTGATGAAGAACATGATG[A]TCACTAGTAGGTAACTTTCTGTGTCATTG CCTTACTCTCAGTGAGGTGCTAGTGGATTACCTACCCCTGCTTTGCATCACCACCTGTAAATCTAAT AGTGAAGGCAATGATGCTCAGTATCACTGTGAAACATTTTCCCTTGGACCACTGAAAGAA TCTTGAGGAGCCTGAAGGCTCAAGGTCCACACGTCAAAAAACACAGCCC
WI-19724	35 A G ---	---	TTTATTGGGAAACAAAGGATTGTAATTTGGGTAA[A/G]CTGAGTCACGGTGGCCCTGAGTAGTGTC CTAGAAAGCAAAACAGAGATTITGGTTTTCCTT
WI-19307	196 T C ---	---	TCCTCTCCCCCAACTAGATGGTATTGATCACTCTGCCCAAAATGGTACCCCTTCAGCAAGAACTG CAAGCCCTTCTGGATTGCCCTTCATGAGAAATGGTGGCTTGGATGGAGGTGACATTCTTGTCTGT GGTGAATGCAAGAAAGGAAACCAAGCAATGATTCCATAGAGGCCCTTAAAGAGACCCG[T/C]TGG AAATGGGCCATGGTCTAATTTGGTGTGAAATAAACTAACCTCTTTGGCTG
WI-19269	85 A T ---	---	CTTCCCTCATCCCTCTTCCACCACACCATCCCGGAACAAGTGTCTCCAGGATCCCTGCCCACTGGC CATTTTGGAGTGTCC[A/T]TTGGGTAGCAATGTGGAAACCAACAGGCCCTTTGTGGAGAAATGG AGGGGTTGAGGGAGTCCAGGAGGGCTTATTGAGGCCCTTGGCCACTTGTCTCATAGGGGAGCTCG ATCTCTCATCATCTGGACAGGTGGAAGCGAATCTTCCCGGGCGTAGGCA
WI-19946	122 C T ---	---	CAATGGACTGAATGAGTGGTGGTGGGTGGGGGCACACACACCTTCAATACACGTCAAGGTGCG CTTCCAGTTTGTAGAAACAGAAATCTGCATCTCAGCCTGAGACGCACAGAGAGT[C/T]CTTCCCTG ACCCAGCGCACTCACGAGCCAGGTCCTGTTTCAAACTGCATTAACTGCGCCAGAGAGTTTCAAC CGTAGGCATCTTTAATAACTAACTCCAGCAAAATGTGGGTACGGTTACTAA
WI-19956	141 G A ---	---	CACAGCATGGTGAATAGCATCAGATTGAATGAAAAGTTTGTAAATGCAACCAATAAATAATTATA ATAATATACATCAAGTAACCTTACAGCACACATTTTATAGGCCCAAGTTTGGATCTGTCTGGACCT CAATGT[G/A]CTCTCGGAGAACGACCCACGTTAGCAGCAGATACCTTACAGCTTGTCTACTCAA GTGATGGCCCAACAGAAAGCTTCTGAACCTCTCTCTGGGAGGTAGCTGACAAG
WI-19076	40 G A ---	---	TTGGTTGGATACCTTGTGGAATAAAAAAGCAGTTTAA[TG/A]GTATTCAAAATACCTTTTAAAAA GTATTCTAGCACAAAGATTTTCTGTAAACTAGATTATGTTGTAACCTTTTCTAAATCTTGTAGGAG TGTGGTTGTTAAGAACTAGAGCTTATCTCTATCCAAATCTATCTTGGCTCCTGAAAAAAGTGCAGA AAGGCACTTGAAGCTGTTCTTTAAGATATGGGATTCCTTTTATCTT
WI-20218	26 T C ---	---	CCACACACTCTGGTTTATAAGCTAT[C/J]AGGACAGAGCAGAGATGGAAGTGAACCAAGGGTAG AAAAAACATAAATTGGAGGGGAACAGTGGGATGCAGAAAGAAATGACAAACAGCCACATGTGCCCCA GTCAAAATACCTTTAGTCCCTGCAGCAGAAAGATGCCAACCAAGTCTCTATCTACTGGCTGGGGATCCTGCC ATGGATGCAGGAGAAAAA
WI-20295g	154 T G ---	---	CAACCTTTTGCAGAGGGGACGTGAATTTCTGATGAAAAGTTATCTTACCAAGTTTAAATCATAATTG GGAAATCTCTTTTAAATATCTCCAGGCTTATTTGGGAGGGGCTGGGCTCTACCCCTTTCTCTTCCCA TCCAGTCTATTGCCAGAT[G/C]CAGAGAAAGCGGGGAAGCCAGCTCTCCAGCATAGCCACTGTGG GTCCGGCTTCACCTTCTGTGACCTCTCTCATGCTGGGACTTGTCTTTCGGGG

WI-20361a	192	G A ---	---	CTGGAGTGCTGACCTAAGTGACATTTTTTAATGCCAAATACAGTAATCTCCAAGCTTTTAATGGCTTATGCAAGATGACAGAATATGTGAATCTGATTGTCCAGAGTTACACTCTGCACCTCCAAAGCTACAACAGTGCCACAGCTGAGAGGTTCCCTATACCTCTACTACTGTGACAAATTTAGC[G/A]ATCCTTC
WI-20572	75	A G ---	---	AAATGGGAAATTCCTAACTACACGAGACAATGGTCTCTACAGTAGGCCCGG GAGCCAAACCCAAACAAATAAACACAGAAGCTCTTTTGTAAACTAAGTCATACCTACTTTCTTCTCTCAGAAATT[G/G]TCATAAACATCATCTTTTACAACATGGAGAAGGAGGTAGGCCATAATTGTTCAAAATTCATCTTTCTCAAAATTTTAAATTTGTTTAAATCCCAAAGGTGCCTATTGAATCTTCCAAAAATAAACTGCCTATCAGGTATCATACCTGCAATGCTTCTTAATATCTCTTGATTAT
WI-20588	133	G A ---	---	CATGACAAAGACAAAGATCAAGGAGTAACATAAATATAAGTTGAATAAATAGTATACAGCAATCTTCACTTTTTAAAGAAATGTGAGATCCTTTGTGGTTTTTATTTCCTTAAGTACAAAATGCTAAAC[G/A]GGAGCCGAGCTCTCCGCATTCAGG
WI-20593	79	A G ---	---	TGACCTCATACTGGGTTCTGGTTAGAACACAGCCACTAGAACAACTCCAGTCTTTTTCAGTCTGTTGCTGTACTTCAG[G/G]TTTAAATCTGGGAATGAGCATGCAGCAATGCTCCACCAGATGAGGAAGAAAAGCTGTTAAAGGAACCTCAGGATGTTGTTAGGAAGGGGAGTGATGCCAGGCCCTTACCAGACTATCCAGAAAGCCATCCATGGGTATTGGTCTGCATACTGTGAGACACTGAGCT
WI-19765	57	T C ---	---	TTCTTTGCCAAGCCTGTTCTTCAAGTTATTCAGAACTGGGTGTATACCTTGTCTCAIT/G]ATGTAICTTGTCCCTGCTGCTTTTAGTTAGCAAGGTGTATGAATACITTTAAGTTTTGTTTGTCTTTTCCCTCGTGGTATCAGTGAAATACTGATCTATTCTCTGGCTAGGGTCAATTTACAAAATTGCCATGGAACCTGAGC
WI-19066f	239	A G ---	---	AAAAGGCCACGTGGGATAAAATCACTACCATCGACGCCACCAGTATT TGACAAGGGGAGAGAAAGGAAATTTCTACTCATTCGAAGGAAATCCTCACTTAAGCTTCAAGTGAGCCACAAAGCACTTAAACCCCATGAACCTTCAGCTGATCGTCTTAGCCAGTCCAAATCTCTACGAGGAACCTGGCATATGTTCTTGGTGGTCAACCTGTAGCTGAATTAATCTCTCCATATCCGGATGCTCAATTACAGT
WI-19066g	184	C T ---	---	ACCATTCAGGCAAACTTTTCTTAAACGCCCTTCACT[G/G]TTTCTTTTA TGACAAGGGGAGAGAAAGGAAATTTCTACTCATTCGAAGGAAATCCTCACTTAAGCTTCAAGTGAGCCACAAGCACTTAAACCCCATGAACCTTCAGCTGATCGTCTTAGCCAGTCCAAATCTCTACGAGGAACCTGGCATATGTTCTTGGTGGTCAACCTGTAGCTGAATTAATCTCTCCATATTC[G/G]GATGCTCAATTACAGTACCAATTGCAGGCAAACTTTTCTTAAACGCCCTTCACTAGTTTCTTTTA
WI-19066f	148	T C ---	---	TGACAAGGGGAGAGAAAGGAAATTTCTACTCATTCGAAGGAAATCCTCACTTAAGCTTCAAGTGAGCCACAAGCACTTAAACCCCATGAACCTTCAGCTGATCGTCTTAGCCAGTCCAAATCTCTACGAGGAACCTGGCATATGTTCTTGGG[G/G]TGGTCACCCCTGTAGCTGAATTAATCTCTCCATATTCGGGATGCTCAATTACAGTACCAATTGCAGGCAAACTTTTCTTAAACGCCCTTCACTAGTTTCTTTTA

WI-19066e	147 G C ---			TGACAAAGGGAGAGAAAGGAAATTTCTACTCATTTGCAAGGAAATCCTCACTTAAGCTTCAGTGAGCCAC AAGCACTTAAACCCCATGAACCTTCAGCTGATCGTCTTAGCCAGTCCAATCTCTACGAGGAACCTGG CATATGTTCTTGCG[C]TJTTGGTCACCCCTGAGCTGAATTACTTCTCCATATTCGGATGCTCAATTAC AGTACCATTCGAGGCAAACTTTTCTTAAACGCCCTTCAC TAGTTCTTTTAA
WI-19066c	100 G A ---			TGACAAAGGGAGAGAAAGGAAATTTCTACTCATTTGCAAGGAAATCCTCACTTAAGCTTCAGTGAGCCAC AAGCACTTAAACCCCATGAACCTTCAGCTGATCGTCTTAGCCAGTCCAATCTCTACGAGGAAC TGGCATATGTTCTTGCGTTTGGTCACCCCTGAGCTGAATTACTTCTCCATATTCGGATGCTCAATTAC AGTACCATTCGAGGCAAACTTTTCTTAAACGCCCTTCAC TAGTTCTTTTAA
WI-19066b	87 C T ---			TGACAAAGGGAGAGAAAGGAAATTTCTACTCATTTGCAAGGAAATCCTCACTTAAGCTTCAGTGAGCCAC AAGCA[C]TJTTAAACCCCATGAACCTTCAGCTGATCGTCTTAGCCAGTCCAATCTCTACGAGGAAC TGGCATATGTTCTTGCGTTTGGTCACCCCTGAGCTGAATTACTTCTCCATATTCGGATGCTCAATTAC AGTACCATTCGAGGCAAACTTTTCTTAAACGCCCTTCAC TAGTTCTTTTAA
WI-19066a	72 C T ---			TGACAAAGGGAGAGAAAGGAAATTTCTACTCATTTGCAAGGAAATCCTCACTTAAGCTTCAGTGAGCCAC AAGCA[C]TJTTAAACCCCATGAACCTTCAGCTGATCGTCTTAGCCAGTCCAATCTCTACGAGGAAC TGGCATATGTTCTTGCGTTTGGTCACCCCTGAGCTGAATTACTTCTCCATATTCGGATGCTCAATTAC AGTACCATTCGAGGCAAACTTTTCTTAAACGCCCTTCAC TAGTTCTTTTAA
WI-20660	105 G C ---			TTTACAGCGAGTTTTTCCCGTCTCAATAAGTATGAATCTAAATAGATTAGGGTGAAAGAAAAATGTG TGCTAAATAAAATCTCCCTTTTGAATGTATATTGT[G]CJTAAATAAGGGAAGCATTAATATTTA CAGACATATTTACAAGGTTCTGAACATGAGTGATTCCTACTGTTTTCTGTACAAGATAGAACAAA AAGCTATCCACCCCGCCCCAAAAATACTGTTTAAACAACACTATGTTTTAAGA
WI-18768	120 C T ---			CTGCTGCCAGCTTCTCTCTTGCCCTGCTCCAGATGGGGTCTCTTGGCAGCCTCCCTCAGTCTTCC TCCACCGCCTCTTCTTCCAGCCTGCCTGCATGCATGTCACCCCTGGT[C]TJTTGCTCCATCGCC TTGAAAGCTCTGAA
WI-19087	37 A G ---			TTCCCCAGGGTTCTGTATTCAGCTAAGCTCAAAATGTA/GJATTTAACTTCTAGTTGCTCTTGCTTTG GTCTTCTTCCAATGATGCTTACTACAGAAAGCAAATCAGACACAATTAGAGAAGCCTTTTCCATAAA GTGTAATTTTAAATGGCTGCAAAACCGGCAACCTGTAACCTGCCCTTTTAAATGGCATGACAAGGTGTGC AGTGGCCCCATCCAGCATGTGTGTCTCTATCTTGTCATCTACCTGCTCC
WI-18790	49 A T ---			GAAAGCCAGAGATTAGCCCGCATTTCCGCATCTGTCAACCAGGACAGAA/JTGCATGGACAAGGGA TGAGCTTTACAAAGATGATGCACTTTGGAGATCAGAAAAATTCATATTTAAGCAAAGTGATACAAACA CAGTGATTTGGGAATGCCT
WI-18987	35 G A ---			AGGAGGCTGTTCCAGGAGTCTCTCCAGCAGCCTC[G]A/JGTGGCCAAAGCCAGACACTCACCCACCTT CCCCAGTGGCCCCGTGGATCCTGGTCTAGGCTGGACACAGGATTCAGAAAGACACCAGGCTGCACA GAAAGAGCCAGATGGACCTGAGTGTGGTGCACAGCCCCCTACACTCAAGGCTGAGAGGCCCTCAGGAA AGTCA

WI-18919	26 C T ---	---	TGGATGAAACCACAGGGATTCCGGA/C/1GCCAGACCCCATTTTATACTTCACTTTTCTCTACAGTGTGTTTTGTTGTTGTTTTATTTTTATACITTTGGCCATACCACAGAGCTAGATTGCCCAGGTCTGGGCTGAATAAA
WI-18741c	64 G A ---	---	CTTCTGGTCAAGGCTTTGGACATCTCTTCAGTCAATCAGACAGAGTATCTCTGCTCTAGACCTC[G/A]CTGGAGTTCAAGCTTGAATTAATTATATATGCAAGTTAAITTTACAAGCCTGGATGAGGCTACTGA
WI-18741b	38 G C ---	---	CTTCTGGTCAAGGCTTTGGACATCTCTTCAGTCAATCAGACAGAGTATCTCTGCTCTAGACCTCGCTGGAGTTCAAGCTTGAATTAATTATATGCAAGTTAAITTTACAAGCCTGGATGAGGCTACTGA
WI-18741a	23 T G ---	---	CTTCTGGTCAAGGCTTTGGACAT/GJCTCTTCAGTCAATCAGACAGAGTATCTCTGCTCTAGACCTCGCTGGAGTTCAAGCTTGAATTAATTATATGCAAGTTAAITTTACAAGCCTGGATGAGGCTACTGA
WI-19179a	170 G A ---	---	TCAGAAGCAGACATGGCATCTGTTCCCTGCTTGGTGTGTTGGTGTGTTACCTTTACGAGACCTGAAITTTAGAAATGCCAGTGTGCCAGAGTGAGTGAGTAAATCTCCTTTTCAGGTAAGATAGGCTATCTCAACACTGCTGAGTGATTCATAACATATCAACCA/GI/ATAGCAITTAACCCATTTATTTCCCTGCTTGTGCTGAAGATGCTCACCAGTTTCTGTGTACAGTAAGGCAGCATGCT
WI-19212	46 T A ---	---	CCAAATTGCATCCATGTTTGATTTTCTGTATGAGACTAGAGTGACAGT/AIGTTTTCAGAACCCAAATGTCCTCAGGTAGTTTGGAGCATCTCTATGAGATGGGATTAATGAGATGGCTATGGAAAATGGAGCTGCAATAAACACATTATCAAAAGTCCTCTTACAAITTTATTTCCGAGCATGTCAAGTAAGTAGACCCAATGGGGAGAGAAAATGCCTGCTTCTTCCCTCTTTTCTGCACTGCCATAT
WI-19183	210 G C ---	---	CTGTTGAAGGCTTCTCAGGCAAACTCCAGCTTAAAGCCCTAGACAGGTAAAGACACACATTGGATGCGAGCATGGGTTTCTCCCATTTTATGGGCATGAATAATGTGGTTTAGAATAAGGAACAAGCATTAATCCTTTGCCAACAGCCTCACTCTAAGAGGCTTTTGTGAGTCAAGCAAACTTGCCTGCTCTGCCCTGGAG/GC/JTGCAATTGACCTGCTCTCACTGGTAAGGTGACTTGGTGGC
WI-20014b	214 T C ---	---	TTGAAATCCCAGTCTCCTGGCCCCCAGGCAGGGTCTGTCAACATAGAATGTCTTCCCTACTGGGGTGTTCTGGCTTTTGTAGAAACTGGTCTGAGATGTTCTCCCTGTCCATTACCATTCGATGTTCTTTTGTTTCAGAGCAATGTTCTTGATTTCTGAAACTGGAACCTGAACAGTTTGCCTTTCTCCTAGTCACC AAGCATACTT/CJCTCCTGGCTCCCCAAGTACTTAAATGTTCTCATCTGT
WI-19041	198 T C ---	---	GTCTCCCCAGAGTCTTCTGCACCCCGCCCTGTCTGCCTGTAGGGGATACAGAGAAGCTCCCCGTCTCTGCATCCCTTCCCAGGGGGTGCCTTAGTTTGGACATGCTGGTAGCAGGACTCCAGGGCGTG CACGGTGAGCAGATGAGGCCCAAGCTCATCACACCAGGGGGCCATCCTTCTCAATACAGCC/T/CJG CCGTTGCAGTCCCTATTTCAAAATAAAATTAGTGTGCTCCTTGCCTGTCTGT
WI-19135	20 G A ---	---	CAGTTACCTGCTTTGCCTC[G/A]AAAGTGTCAATTTTGTAATTTTAGTATTAACTGTGTAAGAGTGTCTGTAGGTACGTTTTATATATAAGGACAGACCAAAAAATCAACCTATCAAAGCTTCAAAAAC TTTGGGAAAGGGTGGGATTAAGTACAAGCAGATTTGGCTTACAGTAAATGAAGTATTTTATTAACT GCTTTTGGCCATATAAAATGCTGATATTTACTGGAAACCTAGCCAGCTTCAAC

WI-19236	54	G A ---	---	TACACAGAGGGTGCACCTGGACTCTGAGGGTTGGGTGGAAGGGGAAAGG[G/A]GATGGAGAC CTGCTCCCAGCTCTTCTGTGAGCCGGTTTACATGGGAACAGGGTTAACATCTGTGTTAGGGAGGT CACCTTACCTTTTTCATAGGGGAAGAGTGCACACTCTCTGGCTATCTCAGGGGAATGGGAAAG AATCTTCAAGGGCAAGAACTCGTGGAGGATGTCGTGTGATGTAATACT
WI-19144	222	G C ---	---	GTGCCAGTCTCCAGAAAGCAAGGACTGCCCTTCATTACGCCCTGCTGACCTCCAGCCCTTCTAAGG CTCAGCCCACGGGACTCTGTGGCTGCCAGCTTGTGAGCTATCTATATATTCATTTCATAGCCAA ACAGGAGACCCCTTTGCAAGGACTTGCACACAGGAGGCTGTAGCCAGGAACCCCTCTTCTCCCTGGT CTGGCTCTGCTGGAGCGG[G/C]TGGGAACCAACACCTTCAGTCTGGTG
WI-19139b	110	C A ---	---	CCCGTCTAAGGGGAGAAAGCTAATGTTTTCCACAAGACTGAACAACGTGTATTTACACGAGGGTAGAC GGCAGATGCCCTGACAGAGAGTGGGTTGGCAGACAACACACTAG[C/A]ATTTTCACGGGTGTGGGCAC ATGGGTGTGGCACCTGGACGTGTGCAGCATGTGGCGGTCTGTGTGAAGCCACCGTCTCTCTTTGG GGGGCCGCGAGATCTAGCATCTCTGAAATCCTGGCTGTCGAGGCTTTGAAG
WI-19139a	66	C T ---	---	CCCGTCTAAGGGGAGAAAGCTAATGTTTTCCACAAGACTGAACAACGTGTATTTACACGAGGGTAGA[ CT]GGCAGATGCCCTGACAGAGAGTGGGTTGGCAGACAACACACTAGCATTTTCACGGGTGTGGGCAC ATGGGTGTGGCACCTGGACGTGTGCAGCATGTGGCGGTCTGTGTGAAGCCACCGTCTCTCTTTGG GGGGCCGCGAGATCTAGCATCTCTGAAATCCTGGCTGTCGAGGCTTTGAAG
WI-18910	112	T C ---	---	GGCTGGGACCTTTAGGAAAGTGAATGCAGGTGAGAAGAACCTAAACATGAAAGGAAAGGGTGCCT CATCCAGCAACCTGTCTTGTGGTGATGATCACTGTGCTGTG[C/G]GCTCATGGCAGAGCATT CAGTGCCACGGTTTAGG
WI-19235	173	A G ---	---	TTCAGGAGGTGGAGTTCGTCAGCTCTCTGCTGTGATGTGGAAGCTTCTGATATTTGAAGAACA CGAATGTCTCTGTAGCTTCTCTTCACTGCCCCAGTATGCTCTGTATTTATCAGCGATGCCCTCTGT CACTCATGCCCTTGCCTAATTGTTCACAATGGTGGAA[G/G]GCTTCATGTAATGATCAGGACCCACC TCCAGTCTTCTGAAAGTGTGACAGTGTCCAGCCGGTTCGACGACTA
WI-19222	179	C T ---	---	CGTTTTCCCTAACTACCCAGTTTGTGGGATGATTTGATTTCTGTGTTGATCCCATTTCTAA CTTGGAAATTGTAGCCCTATGTTTCTGTGTAGGTGAGTGTGGGTTTTTCCCCCACCAGGAAGT GGCAGATCCCTCCTCTCCCTAAAGGAGACTGTGCGGAAC[C/T]TTTCACACCTCTTTCTCAGGGAC GGGGCAGGTGTGTGTGGTACACTGACGTGTCCAGAAGCAGCATT
WI-19117	134	A G ---	---	AAATAATGCAACGCAGGAGGAGAGAAAAAGAAATGCACTAAGACAAGAACATTCTCTCATAGAACATTG ATCTGTTTTACAGGAACAACCTTGGCTTGAATTTACACAGTGAGACTGTACATAATTGCATGAA A[A/G]TAGCTATTTTTTCCTAAGACATTTTTCATTTCATGAATATTTCAAGTTTTTCATACTGTACA CATTTCTTAAACACATGATACCAGCAGCAACTGAAATGAATGCCGAATTG

WI-19134c	263 C T ---			CTCCTGTTGCTGACCTGACAGGGTGACACAGCCCTTTTCACACTCTGTCTCCTCTATCTTCTCTGGGTAGA TGCCCTGGTGTAGGGCTGAGTACTGAATGGTCTTCCATCCCAAGAGGGGGTGCAGCCAGGGTCTAG GCCCTTCAGAGCCAGGGCTAGAGGATGACAGGTGGCTAGAGCCAGCTGCACATATCTTTTCAGAGCAC TTCATCCACTTGCTCTCCCTCTACCTCGGCACCCCTGGGTGGGAAAGGG
WI-19134a	162 T C ---			CTCCTGTTGCTGACCTGACAGGGTGACACAGCCCTTTTCACACTCTGTCTCCTCTATCTTCTCTGGGTAGA TGCCCTGGTGTAGGGCTGAGTACTGAATGGTCTTCCATCCCAAGAGGGGGTGCAGCCAGGGTCTAG GCCCTTCAGAGCCAGGGCTAGAGGATTCGACAGGTGGCTAGAGCCAGCTGCACATATCTTTTCAGAG CACTTCATCCACTTGCTCTCCCTCTACCTCGGCACCCCTGGGTGGGAA
WI-19224	112 C T ---			GGTTTACCAGTCTTCCAGGGAACCTCGATGAAGTGTTCACACAAAATGAGCGAGTGAACCAAGA AGAGGATGACATTAGATCCAGGAGATACAAACAGAGGAGATAATCTTCAGGATGCCCTGTGAAGA AAGATCCCTGGATCCAGGATGATTATAGGACAAGTTGTTCAATATCCAGCAGGCCAGAGACTTCC AGGGAAACTCATTCAGGAGGTGAAAATGATGGATGACTCTCTCCAAGATGAAAA
WI-19201	179 T C ---			GCAGCTCCTAAGGACCCTGGCCATTAGCTCTTGCTTTTGATGGCAATCTCTTCCACCTTGTCTTCTC CTTTGCTCCTCTGTGTAGTGGCAGGTATGACAACTCATCCAGTGGAAACACAGCCTCACACTGCC CTCCGCCCCCCACACTTTGCCCTGAGGTGCACCGAAAGGACTTCGTTGGGGGATAAAAATTCAAAAA GTGTGATGTGCTGCTCAGAAGGTGAGACTCCATGTCTGCCCTTGGCCTCAA
WI-19034	45 T C ---			GAAATGGTCCACTCAGAGCTACCCCGGTGATGAGGATAGGGGAAATTCJACTTCTATTACATTAAG GCAACAGCAGTTAGTAAAGGTTTTACAGTGTCTGCTGTTTGAAGTGGAATATAAATTTTTTG CTAGCCCATGATCAATCGACTTCTATTGTTTGATATACACTTCAGCATTTAAGTCTGTCTGCAATTGAC ATTTGCTACTTATAAACCCTAGTCCCTAAGTCTTCTTATGCTGTCTATATA
WI-19102	25 C G ---			TGTTCTGAGTCACGCTGAGGAGAGTCGCTTCACTCAGGAGTTCATGCTGAGATGATCATGAGTTCA TGCGACGTATATTTTCTTTGGAAACAGAAATGAAGCAGAGGAAACTCTTAATACCTTAAATCGTTCT TGATTAGTATCGTGAGTTGAAAAGCTAGAACTCCTGTAAAGTTTTGAACCTCAAGGGGAGAGGTAT AGTGAATGAGTGTGAGCATCGGGCTTTGCAGTCCCATAGAACAGAAATGGG
WI-18548b	65 A G ---			AAAGGAGGGAGAAATCTTTTACATAAATGCCCTTGATCATCTCCAGTCCCTTCACTGGGGAAJA/ GJAAAAGCATCTNTCAAGCTTTTGTCACACTTTGGCTGC
WI-18548a	62 G A ---			AAAGGAGGGAGAAATCTTTTACATAAATGCCCTTGATCATCTCCAGTCCCTTCACTGGGGG[G/A/JA AAAAAAGCATCTNTCAAGCTTTTGTCACACTTTGGCTGC
WI-18700	97 T C ---			GGCAGCAGCTTTTAAATTGAACACTTTCTTCTTGAGGACACACCTTCAGTACAGTTAACAAATGGT TACACCTGAAATCTGCTGAGAGCAGAGCTTCJAAAGATCCACAATTGCAAAGGCCACTGCTGGCTCA CTTCTCTACA
WI-18501	121 C T ---			CAGAGGGAAAAGTTTATTGAGTCAGCCACAGAGGAAACAGAGAAACACAGACAAAGGAGGTTCTGTGT GCATGGAGGAAATCAGGGCGCCGNACAGCTGAACCTCGCGAGGACAGAGGGGGCGCTJGGACAGCA GCGCATGCCACAAACATTCA

WI-18017	87 C A ---			ACAAAGAAAATGGAAATAGGTTTGGGAAAACCTTATCTGCAATGTACAAAGTAATCCCCGTAGATAA GGAGAGGCAACCCCGGAACA[C/A]ACTGCTGGATAAATCGTTCAATTAATAATATATCTCTTTGCAT CAGAGCTGGTGGAAAATCAT
WI-18148b	101 A G ---			TTATTGCGTTCCTTCGATAACCTCTCTTTGGGACTATGAGATCATCACCAGATGTGAAAACGAAAGCA GTGATTCAGAAACCCNTCGATTCTGAATATCCC[A/G]TGGCGGCATATGCAAGGAAGATGA
WI-18254	64 T C ---			TATACGGATCATGTATTTGTGTGACCAACCACTACCACAGTCAATTTGTAGAGCAGTTAAATCAC[T/C] JGCCAAAATCCCTCTTGCTTCTGTAGTCAGTCTCTCCCAACCCAGGNACTTGGCAACCTGTTT TCCGTTCCTAGACATTT
WI-18265b	117 C A ---			CAATGGGTGGACTGAGTGATAAAACGCATATTGAGAACAAAGACGGCCTTCTGGCCNCTCTGCGTCC AAGGCTGTAAAGGTCTCAGGATTGCTGCTAAGTGAGCCATGAACCTGGCTG[C/A]GTTTTCAACCTTTC CTTGGGTGGTTTCTTCAG
WI-18295	40 C T ---			ACCACACATTTGTTGAGAGCCTATTGTGGAGAACAAACAG[C/T]TGGGAAGTAAAGTTGATTACT TCCTCTCCAAGGATGATGTTTAAATGAATCCCTTTCCTTTCAGCTTCAATCTTCATAATGCCAAA
WI-18459b	64 T C ---			GGGCAAGAGACAGAGATTTAATTGAATAAAAACTCCAGGCTGTGACACGGTGGGAGACACAAA[T/ C]GAGTAATTAACAACATAATATTTANATGACAGTGCAATTAATAACGTCTGGTAAAGCCAGAG GGGAGGAGGGGCTTTC
WI-22585	56 A G ---			TTTATTTTAAATTTGCATCTGAGATAATAAAATTTATCTGACAAAGTGAACAATG[A/G]CAGAAAGC AGCAGTGAAAGTTTCGGAGAGGCAGGTATCCTTTCATTTTGGCACAGCTGTATATAGATTGA
WI-21155	36 A G ---			GGGCTGTGGAGTAACAGAACTTGATGGAAAATTGGC[A/G]TCTGTGAGAATGATTTCTAAAGCTTTC AGACAAATGGCAGA
STS-F02766b	88 G A ---			GCCTTGCTCTTTGCTGCTCAGAGGCCCTCAGATGGATACGACGCAACTTCTTTTGAACCTTTTAT TTTCCTGGCAGGAAGAAG[A/G]GGATCCAGCAGTGAGATCAGGCAAGTTCTGTGTTGCACAGACAG GGAAACAGGC
WI-19888a	98 C T ---			GGCAGATTCAACCCATAACAGAGAAATAACTCCTTATTGGAAACAAGTTTTATTTTGATATGATG AAAAATTTTGGAACTAGAAAGTAGCAGTGA[C/T]TGGACAACGTTGTAAAGATATTAATGCCACT GAACGTTCATTTAAATGGTAAATTCATGTTATGTTGATTTTACCTCAATTAAGAATGGAACATGT CTTATAATTGTAAATTACATGAGANCAATTTATGTTGGAAGTGAACACAAG
WI-21485	82 C T ---			TGAGACCATCCTCCTCAACAAAGAATCAGTCAGTTTCAGCACCTAATTTTCCACACTGAAGTCTACG CAATTTTCATGCAG[A/C]TGTGTCACACAGTACAGTGCACAAATCCAGAGGGCAACACATTTGTAATT CATATCATCCGTTTCCAAA
WI-20601a	125 T C ---			TCAGAAATGCTTTCCTGCCCCCAACCAAGAAATTTAATGAATGCNCTTACAATTGAGATGACTT GAAGTTAAAGAAAGGTACCTTCCCTGGAGGTGCATGACAGGATTAGTCTCTGTTT[C]CTTGGT GCAAGTTTGAACCAGTATTATGTACCATTGCAATCAGAGCATCTGTTTCCCTGTCAGATCCCCACTAG

WI- 20561b	94 T C ---	---	CGTTGCTTATTAAAGATGGCTGTTTATAAGTATAAAGCAGTTTGAGCAACACTGATTGTGCATTATTG TACTTCAGATGAAAAATCCTTACATGTC[G]GAATCAATGTCCTTTTAAAAATTCAGATAAAAGAATTT NCAATTTGAGGAGACATACAATTGTAA
WI- 20561a	25 A G ---	---	CGTTGCTTATTAAAGATGGCTGTTT[A/G]TAAGTATAAAGCAGTTTGAGCAACACTGATTGTGCATTTA TTGTACTTCAGATGAAAAATCCTTACATGTGGAATCAATGTCCTTTTAAAAATTCAGATAAAAGAATTT NCAATTTGAGGAGACATACAATTGTAA
WI- 20116e	69 T A ---	---	GCTTTCATTTCTGTCAACCCACCCCTGTCCACAGTTATGTTGGCCTTCAATATATGGCGTTAGAACAT AIT/AJATAAATCTATATATATTTATACACACAACACATCTACCAGCACTGTGAAGACACAGA CTAGGCTTTACTAGGCTTGGGGCCTCTCCCATGCCACTTAAAAATGNGCACAGGTTTGCTCTATGCAA GAATTTCAACAGAGTTGGTCTGGCCATCAGTCTGCAATTTCCCGGAGATAA
WI- 20116c	59 T A ---	---	GCTTTCATTTCTGTCAACCCACCCCTGTCCACAGTTATGTTGGCCTTCAATATATGGCGT/AJTAGAA CATATATAAATCTATATATATTTATACACACAACACATCTACCAGCACTGTGAAGACACAGA CTAGGCTTTACTAGGCTTGGGGCCTCTCCCATGCCACTTAAAAATGNGCACAGGTTTGCTCTATGCAA GAATTTCAACAGAGTTGGTCTGGCCATCAGTCTGCAATTTCCCGGAGATAA
WI- 20116a	22 C G ---	---	GCTTTCATTTCTGTCAACCCAC[C/G]CTGTCCACAGTTATGTTGGCCTTCAATATATGGCGTTAGAA CATATATAAATCTATATATATTTATACACACAACACATCTACCAGCACTGTGAAGACACAGA CTAGGCTTTACTAGGCTTGGGGCCTCTCCCATGCCACTTAAAAATGNGCACAGGTTTGCTCTATGCAA GAATTTCAACAGAGTTGGTCTGGCCATCAGTCTGCAATTTCCCGGAGATAA
WI- 20466b	133 G A ---	---	AAAGATTGCGAGTCCTGGGACACAGTTTGGAAAAACACTATTATAAGTTGCACATATTACAAACAG NTCCAAATGGTGAAACTGGTATTCTAAGATGAAAGCTTAATGAACATAATGAAGTGAATAAACGC[ G/A]JGTGAACATAATGTTTAAAAAGTTAGAGCTTGCTCAAGTCAGTACAGCTCTTAAGATAATAAAT ACAGTAACACTACTTTTTATTCTTTGCTCTTTTATCCCTTTTCAGGTTTCGATT
WI-21444	39 A G ---	---	CTGGGCAAGTAACCAATTTTAAAGAAATACTCTCAAC[A/G]AGTCTTTTTTTATGGGGTATTTCA GTTGTTAACAAAGTTAAAAATACTTATTGGAACATAATCTTTTGTATTATTTCGAGGAAGAAGAAATCT ATAAGATTGACTTACTCATTTGTTGACTGGTTTTTGAAGCCTTACTGGGG
WI- 21034b	148 T C ---	---	AGAATGGACAATGATGCAGATGATTGTGAGCAATTTTGATGAGAAAGTGGTATTAGAAGGATACAG CATAAATTTAATTGTAACATGCTTATCTAGCTAACCTAATCTGTTCTGTAGAAATTACTGGTCATGG GAGATTGGATAGA[T/C]GGCCTAACCTATCTCAATTTTAAAGTAATGTAGCAA
WI- 22091c	205 G A ---	---	GGCGTGATTTGATGCAATGTCCAAACCCAGTCAAGCTATCATTTGAAATCCAAATATTTCCCGTAGAG ACATGCAGAGCAATGTCAATGTAAACATACAAAGCATATTACCTCCCCCTTAAGTGACTCATATTTTC ATTACTTGTGCTGTAGCTTTTAAAGGTTTAAAAATGTGTAGCATTAAGTGGTATTACTTGAGGGCA ACA[G/A]AATACGGCTTAACAACACACTAAATCATGAGGCTCAGGGATTG



WI-21805a	45 A T ---	---	CAACTGCTCTGAGGCTTTCTACCTAGCTGATTATATATCCCTATATTAT/TA/AAAAAAAAATCTATAGTCTG CAGTCTTTTGACATCTCTCAAGGTGGATATGTTGGTAATCGAGATCCCATCAATATGTGTGGTT TTGTTGCTTTTGTAGCTTAAGTCTGTTTAGNAATCCAGAGGAATATGATTGAGGCCAGAGTTA CATTGGTTCATAAAATTCGAACAGTTGAAGGCTGTTTGTGTTAATTGCTG
WI-21778b	155 T C ---	---	AAAAATCCATAATTATGAACCCCAAGTTACAGAGAAAGTTCTGTAACCTTTTATTGAATTATTGAC TCTGCCCGCGTGTGTCGTTCTGCTTTCAACTCCAGTCTGTCAATGCCCTGTGTAGTGGGTCCCCAG GTCTGGGCTTCTGAGGTCTT/CJGGTAGAAGGAGGGCAGGTGGT
WI-20907	241 A C ---	---	TGAGTCAGTGGTCAGATGGGGCAGTTGCGCTCAGCTGCAGTCCCTGACTCCGGAAACACTGTGCCTCT CAATGATCTAGAGCTCATCTTGGGCGTACATGAGGGCAGTTGTTCTAGTACCCATTAGCCC ATGGCTCTCAAGCCCAATTCACACTGGGAAAAACACACCCCTCACAAGATGCCTATCCATTGAGTTG ATACAGGTTTTAGTAGCTAGAACTAAAAACATTTTTTA/CJ/AAATTATCTA
WI-21449b	222 C T ---	---	AACAGCAGCAGTCACTTCCAAATGCAAAAAAATTAACAATTTTAGAATAAAATTATAATGTTTA TAATGCGGTGAGAAAGANTTGAAGGTACAACAGATCAAAATCAGCAGCACTGGAGGGCTGGAG AAGCCAAAGCCCACTGGTCAGGGGTCCAAGCTGACAAGTCCCAACCTGAGAGGTCTCCACACCC AAATCATACCCCTCAGCTTCCCA/CJ/TTGACAGAGCCAGTGTCTCTGGGTTAG
WI-21558a	157 G A ---	---	GGTTACAAGGAAGCCTGTGGACAGGCGAGNTGGGTGGAACCACTCCAGCTGGAACCTGCCCTC CCATCCCCCTAGCGCCTTCTGGCCTTCCGGCTGATTTCTTCGACAGCAGTCTTGCCAGGGCAAGG AGCTGTGGTGGGGGCGAGTATG/AJAGCCAGGGACTCCCTTCCACAGATGAGGCCTAGGGCTGCAA AAGGGCCCGTGAAAGAGAGATGTGGTCAAGGCTTATGGGTCTCTCCACC
WI-22187b	178 G A ---	---	TTTGCTGTGGAATCCATGAGAGCCGGAAGCATCGTTGGGCGCTGGCTAGCAGAGCTCATGGNGACCA GTCTGGGCCTGACCAATGGGTGATTACATTTAAAAACCAACCAACCAACCAACCAATACCAAGA ACAGATCACTTGCCATGGACATCAGTAATCTATTGGTAATGGTG/G/AJ/AAATTCATGAAAAATTTCC CCTAAACCATAAACAAAAACTGTCTCTTACCCCAAAAGTGTGGAGGAAAG
WI-22187a	110 C A ---	---	TTTGCTGTGGAATCCATGAGAGCCGGAAGCATCGTTGGGCGCTGGCTAGCAGAGCTCATGGNGACCA GTCTGGGCCTGACCAATGGGTGATTACATTTAAAAACCAAA[C/A]CAAAACAAAAACAAATACCA AGAACAGATCACTTGCCATGGACATCAGTAATCTATTGGTAATGGTGGAAATTTTCATGAAAAATTTCC CCTAAACCATAAACAAAAACTGTCTCTTACCCCAAAAGTGTGGAGGAAAG
WI-21609b	146 G A ---	---	TCATGAATATGCAGGCTCCATAATCTTCTCCCTTGTAAACAAACGTGCAGTCCGTTCAACAAGCTGTAAA AACAAGCCCCAAACCAAGACATCAAGAGGCAAGAGCAGTGGCAGTGAGAAGGGAGCCTGTAAAG GATGTTTCAAAG[G/AJAGGGTCCCGCTATGTGGCCACTGGATGTAGGCAGTGAGCTGAGTCCAGGC TTTCGGTCTGGGAAGTGGCAGAGGCTGAGACANTGGCCAAAGAGGAGTTGGAG

WI-21609a	42	C T ---	---	TCATGAATATGCAGCCTCCATAATCTTCTCCCTTGTAACAA[C/T]GTGAGTCGCTTCACAAGCTGT AAAAACAAGCCCAACCCAAAGACATCACAAGAGGCAAGAGCAGTGGCAGTGAGAAAGGAGCCCTGT AAGGATGTTTCAAGGAGGTCGCGCTATGTGCCCACTGGATGTAGGCAGTGAGCTGAGTCCAGGC TTTCGGTCTGGGAAGTGGCAGAGGCTGAGACANTGGCCAAAGAGGAGTTGGAG
WI-22512a	104	T G ---	---	ACATTCGAGCCAGTTTTTCCATATTGCTCCACTGCCTAAATCCCTGGTGCCTCCCTAGGGCTTCA GGTAAGCCCTGACATCATGTGCTTTGTGATCTGTGACCTGACCCATGTCTCCACCTNAGTTCC CACATTTCCCCACGTTAAGGGCAGGCAGCTACACTTGGACTGCA
WI-21028b	139	A G ---	---	ATCGGCAAGCTACAGCCTTAAATCTGAGCTCCTCAAGTGCACAATTTCTGTCCCTTTTAAGGGCTCA CAACACTAAAGATTTACATGAAGGGTCTGTGATTGATTGAGCAATCTAGGGGATATGTGACAGGG TTTC[AVG]TGCAGTGGTACAGAACACACAGGGAGTTTACAAATTTTTTATACAATGCTTGGGAAT CTACGG
WI-21028a	121	A C ---	---	ATCGGCAAGCTACAGCCTTAAATCTGAGCTCCTCAAGTGCACAATTTCTGTCCCTTTTAAGGGCTCA CAACACTAAAGATTTACATGAAGGGTCTGTGATTGATTGAGCAATCTAGGGGATATGTGACAG GGGTTTCATGCACTGGTACAGAACACACAGGGAGTTTACAAATTTTTTATACAATGCTTGGGAATC TACGG
WI-18829d	58	A G ---	---	ACAACATGCCTGTTACAGGGGGGAAAAATCCTAGGNAATACTTATGTGTACTTCTTG[AG]TTTCA TCATACAAGACAAAGCACAAGACACCCATGCCCTCTGAGGAACATTGGACCATGCACCCCTTGAAA AA
WI-18829b	35	T A ---	---	ACAACATGCCTGTTACAGGGGGGAAAAATCCTAGGTT[A]AATAACTTATGTGTACTTCTTGATTCA TCATACAAGACAAAGCACAAGACACCCATGCCCTCTGAGGAACATTGGACCATGCACCCCTTGAAA AA
WI-20964	87	G A ---	---	AGCCAACTCAAGGCCAAAAAATTTCTTAATATAGTTATTATCGAGGGGAGGGGAAGCAAGGA GCACAGGTAGTCCACAGAATA[G/A]GACACAAGAAACCTCAAGCTGTGAGGTCAATTTGTAAITAA AAGAATACTAAGATTAGATGAACACACACTCAGAAATCTCTAGGAGAGCTGAAAAAAGAAAGAAC AGATGTTAACAAAAAATAAAGGCTGCTGGGGAACCTGAGTCCATGTTAAGCTTG
WI-20059a	59	T A ---	---	CTCTGAACATAAGGGCCGTGAAGGCATGATTGGTTTTGGCACACAGAGTGGATAACCAAT/AJACAT TGGCTGGAATGAGGTGTCAGGAAAAATAAANTGCACAAATCTAACACCATGTTGAAATCATGTCTGA GTTCTGGAGAAAGTTAAAGTGTAAATAATTACAAAGACTGACATGCAACTCTTTACCTTACATTATT CATCTACAGACTATTTTCTCCCTTAGGAGATGAGGAGTATGGGCCCTTAGGT
WI-22130b	165	C T ---	---	TGTTTTGAGGGCTGTAGCAGACTACATAATGAGCGGTGAAAGCGGCTGCCCTCCCTCTCCTGACAC CAGCAAGGGGGAGGCACCATCACCGGCCCTGCCCATCATGCATCCAATGATTACTAGCAGCTAGGAA GCCAACGGGAANAGGACCCCGCGCTTGC[T/C]TGTGTTTAAATCCAGGTTAAGCTATACACGTTTAA ATACATGTCGGAGGTTACATGGTCTCATGCAGTCCCTGTGATGGGAATGAC

WI-21661	117	G C ---				GCTTAGTCTCCACCCCTTTTAAATGTACTCTAGGTACAAAATAAACATTATACACATATAAGATCAGT CTTTCCAACTTTAGAAATGTATAAATAAGAAATGACATTTTAAATAAAATAAG/CJTTTAGTCACAGTC ACACAAAACACTACCTTCTAAGGAAACTGTCCAGTGAAGCCGTTAAATTTGTGCTTTCAGCTATGAAG GA
WI-21980a	25	T C ---				TCAGTTTAAACACATTCATCAAGGA/T/CJAGATTAAITTAATGTCAAGGTGAGCATAAAAAGGGAGATTAA TAAACCAGAAATGTGTTTTCTGGGAACCAAGTTTCAAGTGACTCAGGATAAGTTTTTATTAAATTCAT GGGTGAAGCCCTGGGATAAAG
WI-21636	71	A G ---				TGCTTGATTAAATGTGTTTACATTATCCTATTTCACAGATGGAACAGAAAATACCAGCTTTTTT AAA/A/GJTAGCAATATCTATTATTATAATAAATTTGAAATAACACCATAATAATATCACTAAGGA AGTAATCTAATTGTGTTGATTTTGCAGAGGGAGAAAACATTACCTCTAGAGCTGAGGCTATTGTGC TCATGCAAACTCCAATCTGAAGGTGGTAGAACTAGGAAGGGACAGGGATTTC
WI-22457a	112	G A ---				TTGCTATAATTTCCTTAAAAATGCAAAAGAGTACATCACAGCAGAGTATAGCCAATCACTCATTAGA CAACAGTAACATACCTGGACACGGTTTCAGGCATGAAGGATACA/G/A/CAGTTAATTAACATAAG GAACAGAGTCCCTGCTATTCCTGAAGCATAGGATGGGAAACAGTAATGCAGATTAATACCTGGGGCC AAAACCCACTGAACCTACCCAGCTGAAACACTGAAGGATAGTGGTAAGGA
WI-21524b	97	C T ---				GCCGTGAGGGTTAGCGTATAATGAAAAGGTGTAATAGCCTGATGACGACCTTCGCGTCATCTTAT AATGGTTAATAACAGCATTCCTGTCTACCCGATGCTTCTCTGCAATGGACTATTGGCC CAGTTGCAACAGGGCTAAGATTGTGCGCACTATGACAATGAGTTGTTGATTGTTGGAGTTGCGGTGTC CTGTCAGAAAGATTCTTGACTTTCTCCAAGTTACTTCCTCCAGGGGATG
WI-21524a	35	A C ---				GCCGTGAGGGTTAGCGTATAATGAAAAGGTGTAAT/CJGCTGATGTACGACCTTCGCGTCATCT TATAATGGTTAATAACAGCATTCCTGTCTACCCGATGCTTCTCTGCAATGGACTATTGGCC CAGTTGCAACAGGGCTAAGATTGTGCGCACTATGACAATGAGTTGTTGATTGTTGGAGTTGCGGTGTC CTGTCAGAAAGATTCTTGACTTTCTCCAAGTTACTTCCTCCAGGGGATG
WI-22652a	32	G T ---				TTACCTTCCAAACCCAGGCCACTTTGGAGAAAG/G/JAAGAGAATGCTATTAAATCAATAAGCCAAGAC AATAGGGACTACCTGGGGTAGACCAAGATGGGCAGTGCCACCATACCCATCATTCCTGCCACAGAACC TTTGACATGCTGCCCCCTCCCTACTCCGCACTCACCTGTCTAATTGGGACCTGAAGCTTCAGCATCCCTT CTTAGGG
WI-21703d	197	A G ---				CAACAGGCTCATGGAAACAGAGCCCTAGGGATCCAGGAGCATAGGAGGTGGTGGTGGCAGGGCTC TGCATCCCCCTTTCTCAGCACAGCACCATCTTCAACCCTCCTGGGAAAGCAGCATTTGGAGCCTACACCA CTTGCTCTTTCTCACCAGGGTAAGAAATGCAGGTTATTTGCAGAGGGGAGTGAGTCTGGGAA/A/G/JG TGGGCAGAGCACAGCTAGGGGCAAGGACTTAAGGGAACITTTGGGGGAAGAG

WI-21703c	134 A G ---	---	CAACAGGCTCATGGAACAGAGCCTAGGGATCCAGGAGCATAGGAGGTGGTGGTGGCGAGGGCTCTGCAATCCCTTTCCTCAGCACAGCACCATCTTCAACCCTCCTGGGAAAGAGCATTTGGAGCCTACACQ A/GCTTGTGCTTTTCTCACCAGGGTAAGAAATGCAGGTATTTGCAGAGGGGAGTGAGTCTGGGAAAG TGGCAGAGCAGACTAGGGCAAGGACTTAAGGAACTTGTGGGGAAGAG
WI-22663c	139 G A ---	---	CCCTTGTCAGTCTGTGCTCGGCTTCTCACTGCAGTGGCAGGTGAGCCGGCGCTCGCTAATCTTATTC CCAGTCTCGGTGAACATGGGCTCAGTCTCTCCGGCTCAGTGTGGGTTCACCTGGTGCACTTACAG GC[G/A]GAAGAGCTTCTCATTTGCTGAGGGCTTTTCTGAAATCCGTGTTGAATGTGGGT
WI-22663b	55 C T ---	---	CCCTTGTCAGTCTGTGCTCGGCTTCTCACTGCAGTGGCAGGTGAGCCGGCGCTCTGCTAATCTTA TCCAGTCTCGGTGAACATGGGCTCAGTCTCTCCGGCTCAGTGTGGGTTCGCACTGGTGCACTTAC AGCGGAAGAGCTTCTCATTTGCTGAGGGCTTTTCTGAAATCCGTGTTGAATGTGGGT
WI-22663a	38 C T ---	---	CCCTTGTCAGTCTGTGCTCGGCTTCTCACTGCAGTGGCAGGTGAGCCGGCGCTCGCTAATCTTA TCCAGTCTCGGTGAACATGGGCTCAGTCTCTCCGGCTCAGTGTGGGTTCGCACTGGTGCACTTAC AGCGGAAGAGCTTCTCATTTGCTGAGGGCTTTTCTGAAATCCGTGTTGAATGTGGGT
WI-22668	99 A G ---	---	TCTTTATCTGCTGCCTGCCTGAGTATTTCTGGGAATCTCAAGGATTTGAGGGAGCCCTTGGGATT CCAACCTAAACAAATAGTTTCTGTAAATTT[A/G]TTCTAGTCCATTTAGATTGTAAATGATCTAA ATGNGTAAACCAATTAATCAAAAGTATAACAGCATTTAAGTCAGCTTTTCGAAAGAACTTTTATT
WI-22631a	52 T C ---	---	AAGATATAGTGGCAGGACAAGATTGGTCACGAAATCCTGGCTTCAGTTCGAT/CJAGCACCATTTC CAAGTTTAGGCAAGGATTTAACCTCTCAGGCTCATTTTCTTTGTAAATTTGTGATAATGGACC TATGTACCAATCATAGGTACTTGGACAAATCAACTGAAATTTT
WI-20258	157 G T ---	---	AATCCACACTTTCACGGAGGGGACCAGCCTGCCATGTGCTCCCGAGGCTCACAGCAGCGGGGCTAC TCTGCTGGTGGTTTGGTGGCAGGTGGAGATGGTGACGGCGCATTTGGAACCGTAAGGCATGACAACG GGAGGCCCGGGGTGTTTCAG[G/T]CGCGTTGACGAGGTGCATGGCTGGCAGCGGCCCTCTACAGA AGGAGGGAGCGCAATTCACAGCCTCTTGACGTAGTTTCCGGGGAAGTACC
WI-22714	212 C A ---	---	ACTACACATATGCTGATTTTCAACAGTAAAAATAACATTTTACATTTGTAGAGAAAATCTAGGGTCT ACTAAATAATCTAGTACTTGTTCACACTCTCTGCTAAGTGTGACAGGAGTGTGGGAAACGAAAGT CTGAAAAGGATTCAAAAGGGGCTAGGATTTGCCACAGATCCTGTAAAGGAAAGGATGAGGTGAGCTT ACCAACCCCA[C/A]TGAGTAGGGGCCAAACATCCTTAACAAGCTAGTTGCT
WI-22734a	44 G A ---	---	TGGGGCTACTTTAGATGGGATGGCGTCAGGGTCTGGGAAGGCCT[G/A]TCTAGAAGACATTACCCA AATGATGAGAGGCAGCCAGTCGTCGAAGCCATAGTTTGGATGGCGAGACTTTTCGGCAGAGGAAAT AGCAAGTGCAAAAGGCCCTGAGGGAGAAATGAACTTGGGCTTGCTCTACAGGGTGAAGGGCGCGGT NTGGCTGAGGTTTAGTGGATG

WI-22724	117 A G ---	---	---	TGATATGATGCTGAGATTGCTTCCAAATATGCCTAGGAAGGGAAGAGTGTAGAGATATAGGA CAAATCAAGATTGTCAAAATGTATAGTAAGTGTAAAGCTTGCTAAGGGT[A/G]GTTATTCTATTTT TGGGATATGTTTGGGAATT
WI-22750	48 G A ---	---	---	TGTAACCTGTGTTTTCTGAAAGTTGAGGGAAGCTGAGGCAGCTAAT[G/A]GGCTCATACAAAGGT TTGGAAGACCCATTCTGACTACCTAAAGGAGAGTCAGCATTCTGACCATTCTGACTGTGCT
WI- 22775a	60 A G ---	---	---	TGCTGTTCTTTAGTTCATGACGTTTATCACAATGTGCTACTGTTTCCATTGTTTACATC[A/G]TAGTA GGAAGGGGAAAATAAACTCCCTAAGGGCAGCAATAATTTCTGTCTTTGAATCCTTCAATTCAGGCAAA TATTTGTTGAGCACCAAGGGCCAGATGGAACTGAGGTATGTAGGTGTTGGGAGOCAGGAAAGGAAG GGT
WI-22808	143 C T ---	---	---	CTTAGCTAATGAAACTGGCTATGTGGACTATGATAGACCAGAAAGCTACCCAAAGTCTCTGAGGGAG CCTAGTCCTCCTAAATGCAGACAATGTACCCATGACAAGGGCTACAGCTTGGCTTAGCAACCAGGA GGATGAAGA[C/T]AGCAAACTGATTAGAGAGTAGGTATAAGAACCCAGGGAGAGTGGGGTCCAAAT ATC
WI-21016	207 G A ---	---	---	TCCTCGTGTCTTGAGCCCTCATCCCAACCCCTCCAGCCCTCATGCCACACACCCGTGTCCCACATT CCCCATCCTCCCTGTCTGCTCCCCATCTCAAGTCCAAATCCAAAGCCAGAGCCCTGGCAGCTTTTCTG GGAGACAGCATGAAAAGGGAGTGGAGATGGCAGAGATGGGTGGAGCCAGTGCCTGTGGGTGTC CT[G/A]TTGGCGTGGTGTGTGGGGGCCAATCCTGAGGCCAGAGTTCA
WI-21031	31 C T ---	---	---	TTGAACACCTGACCTGACCTGTGACATGTGG[C/T]CTCTGGTCCCCATTGTCTCCACGGTGGCACA TCTTCATCTTTGTTATATATCTGCAGGAACACTCAGTCTCTTCAGCAGCCGAGAAAACACACACA
WI-21314	122 A T ---	---	---	CCATATCCAGTCTTCTTTGAAGCTTCTATTGACTTTTAGGGTTCAGTTATTATATCCTTTATCACTAT GACTTTTCATTTGATTTTTTTATTGTTTCTTCCATTCTCTGTCAAACTTTTC[A/T]TTTTGTTATAA ACTGTTTCTAACTTCACCTAATTCCTATCTGTATTNCTTGTAGTCCCTGAACCTCTTTTAGAGG
WI-21186	95 G A ---	---	---	AGCGAGCATCAGAAATCACCTAGAGGGTTGACTAAAACAGACTCTGGACCCCAACCCAGAGCTTCT GATTGAGTAGGCTGAGGTGGGCTTAC[G/A]AATTAGTATTTCGAAGACCTTCTAAGTGTGCAG ATGCTGCTTGTCCCGGGGAACACACTTTGAGAACTATTGTTCTAAATGTTCTCTCTCTTTTAA GGAGAGACAGGAATTCAGAGAAACTGCTAATTTAAGCATAATGTATTGAAT
WI- 21187a	94 A G ---	---	---	CCACGATAACTATAAAAGCAGAAAATTAGCTTTGAAAATCAAAATAACATAATTTAGTAACACACATT CATTTTATAAACACACATAAAGACACC[A/G]GNTCTCAGTAATGCTCTAGTCCAGGGGTTCTCAA AGTATGGCTTCAGACAAGCCCCATTTCATCACCTAGGGGAATTGCTAAATGCAGATTCTCAGGCC CTACCTACTGATCTACTGAATCAGAAACTCTGAGGGTGAGACCAAGCAACCTGT

WI-21190	39 T C ---	---	TTTTCCACATACCAATGCACCTGTTTGTATAAACTATTC[GTGGGGTAAGCCCTCTTTGGAGAC CAGTGACATAGACATGATCCCATTAATTAACAAATAATTAATAATCTGTACTATTACTGC TTTAGTTATCTAGTGTATTGAGAAAGGAGAGTCAGCATAGTTATTTCCATGTAATAAAAGCTT AACACA
WI-19937d	186 G A ---	---	ACCATGTGCATTTATTGGCATAGGAATAGTGACCAAGAAATGCAGCANCTAAACTTGGAAAGGAAA GAACTATTGCACAACCAACATTGTACATACTGATTTAGACAAGCAAAAGCACTTCATGTTGTCT GTAAAGGTGTTCTATGGCAACAGTGATGACATTGGTGTCTCCTCAGCAAGTC[G/ATCCAAACCTTC CAAAAAGAAGCAGTCATTGAAAAATGCTGACTTATGCAATTCGCTCAGGAAGAA
WI-19937c	185 C T ---	---	ACCATGTGCATTTATTGGCATAGGAATAGTGACCAAGAAATGCAGCANCTAAACTTGGAAAGGAAA GAACTATTGCACAACCAACATTGTACATACTGATTTAGACAAGCAAAAGCACTTCATGTTGTCT GTAAAGGTGTTCTATGGCAACAGTGATGACATTGGTGTCTCCTCAGCAAGTC[G/ATCCAAACCTTC CAAAAAGAAGCAGTCATTGAAAAATGCTGACTTATGCAATTCGCTCAGGAAGAA
WI-21117b	227 C T ---	---	GAAAACGGGGTGCTAAACAAAGAAAAGTCTCAGATCCCAGTGAATACTGTTACAGTTTCACAGGCTC TCTCCAGAAAATGCATATGTACCAATTTGCATGTACAAATTCAGAGCCTTCAATACATCTCTGGG TCCAATCACATACTTCAGGTTCAGACTCCTAGCTCCCAATATTCCTACAGTTCTGAAGANTTAGCAGT CCTCTCATTTCTACAGTCTGTATTTC[TTTCTACTGAATCTTGGGTGGAG
WI-21122a	42 C T ---	---	TCACTTTGTATCATAATCCCCTGTAAAAGCTAAAGTTATTCAC[TTTAAACAGGAACCTCTGTTTTCC TTATTCAAATGTACAAAGCCTGACGCGTTACTGTACATAATGCTAGCAGGAGACAACCTGGAATACT AAACAAATACTGGAATTCACATTACAGACAGACGAAACCAACATGGGATGCCACACATAACTTCCT TTGAGGTTTCACAGAGAGCCTATTGTTGGGTTGCT
WI-21254	53 A G ---	---	CAGTTTGGTACAGGAAGGGCCCATGAATGTGGGGGGAACCTATCCACAGGAG[A/G]CAAGGAGAAAG CTGTTCTCTGG
WI-21054	23 G T ---	---	AAGGAACTGCATGGGTACAAAT[G/TTCCAAATTCATACTTAACAAGGTGGGGAACGGGTCAATCT TGGCCTGCTCCAGAACAAAGGGCGAGTCTATGCACTCCTG
WI-21059b	181 T C ---	---	GGGACAGGGTAACACCATAGCAATATCCGTTATCAGCCTTATCTTCCCAGTGGCCTGGCTGAA CTACAGCTGCCAGCATTTCTGGGCTTGCAATTTCCCAGCTTCGACATCTTAATTTCAAGCTGAAA AATCCTGGGGAAGAGACATCTTCACTGAAGTCATTTCTCTATTTC[ATTTGAGCCAGGGCAAAA TGAGATTAGGGATTAGCTCAGCCAGAGTTAGGGTGACTATCCTTGCCTAAT
WI-21059a	63 C T ---	---	GGGACCAGGGTAACACCATAGCAATATCCGTTATCAGCCTTATCTTCCCAGTGGCCTGG[C/TT GAACTACAGCTGCCAGCATTTCTGGGCTTGCAATTTCCCAGCTTCGACATCTTAATTTCAAGCTG AAAAATCCTGGGGAAGAGACATCTTCACTGAAGTCATTTCTCTATTCTATTGTAGCCAGGGCAAAA TGAGATTAGGGATTAGCTCAGCCAGAGTTAGGGTGACTATCCTTGCCTAAT

WI-20442	37	T C ---				TCCACGTGAAGGAAGAAAAAANGGGGGGGCTT/CJTAAGGTGGCACAATTTTAAAGAAAT ACCATCCATTTTCTCAGTCTAATCTGAATCCATACATTAACAAAAAGTCAAGTGATGAGACGAA CA
WI-21235	43	T C ---				GTGACAAGAGGTGAAGCAAGGGACAAGGGGCAGCGGCGAGT/CJCTCGGGCCGATGTTCCAGGG CAAGCTACGTA
WI-22012a	57	T C ---				ATCAGAACTGCAATCTGCACATGAAAAGACCTGGGGGGAATGCCTACATCTGGAATTT/CJCATTAAC ATCAACGTTAAATTTTGCCGACCAGTCTTCAATTCGCTGATCAGCTTTTGATAATGACAGATCCAAACAT GAAACTCCTGAAGCAATGAATATTTACCTTGCTTTTCATGCAAAATTTAGGGACCAAACTCAAAGG TTTCATCCATGCTGGGACACCAGATCTAAGGAATGTGACAGGGAATCTTCT
WI-21149a	167	G A ---				AGGACCTGCTCTCACACGTTCCCTCACCCGCCACCGCTTTTGGCAAAGATAGTTGACTAAATACCACT AAATAGTGGCTTTTTTTTTTAAACAATGACCTTATTTATCTTTTAACTTTAAGTCTTATATA CAGACCTGCCAACTGGAAGCTTTTACAC[G/A]TGCTTCAGAAATGCGGCAGTATTGCACAATGGTT TGGGCGAGGTTCTGTGGTTAAACATGGGATGGAACCCCGCTCTACCTG
WI-21376b	188	A G ---				GGTGTCAACTTGGAAATAATGGTTTAAAAACAGGATAAGCATTAAAGAAAAACACTTTCAATGTGTC TTCCATTTGATGAATTTGTTTTCTCTCTTTATCCCCGCAAGTGGAGTTTCATGTCCTCGGTGAACCA GACAGTGAATCTGTCCAGCCCCAAATCTGCAGCAATTAGGATGAGTTCTC[A/G]GAAAGTGATTCT GAACTGAGCAGCACTCATGTCTGCATGGGAACCTCTGGGGAGAAGAGCCT
WI-21382d	125	C G ---				CCATTGCAGTCCAGAGATGAGAACTGGACCAGAGGCAAAATCATGAACAGACGGGAGTCAAGAGA AGGGTTTCTAAGATGGAGAAGTGGGGCGGGTTGGATCCAGTGGGATNTGGCTTCCC[C/G]AGGTT GCAACCCCAAGGAAGTCTCTGGAAGCAGCACCAAGTCTGATGGGGAGCAGAAGAGTGCCATCCTC AGTCAGGGTCCGAGTCAGGTCGAGGAGAGCTGCTGCTCCATAGTCTCGCAC
WI-21437a	201	G A ---				TCCCTGAGGTGGAGTCCTAGCATAGTCCCCCTCCCTCAAGAGGGACAAGGGTCAGGGGCAGAGC AAAAATCCAGTCTGCTTCAACCACGGAGACTGCCCTTGGGATGGAAAGTTTCTGGAGTCCCTCCATT CTATTCTGTGGGGCAGGAACATGCCAGGGCTGCTGGTAAATGGCAGGGTCACTTTACCAGGGC[G /A]CAGGCATAGTGTGGCCCTGCTGCTGCTGGGGCCACCCCTGGGAACAGT
WI-21202b	156	A C ---				CAAAATAGAAATCTTTGTGAGTGGATTGACTTAATTTTATTTCTGTATAAGCTAAATATGTT/CJGA GTTTTATGAACATGATTTTATAAAAAATGGTCAACAATATTTTTTAAGTTAACTGATTTATTGA AGGAGGAGAGAGTTGACCA[A/C]GTCTACATGCATAGACAGTCCCTAAAGCGTATCTCAACATG A
WI-21202a	61	T C ---				CAAAATAGAAATCTTTGTGAGTGGATTGACTTAATTTTATTTCTGTATAAGCTAAATATGTT/CJGA TCTGTTTTATGAACATGATTTTATAAAAAATGGTCAACAATATTTTTTAAGTTAACTGATTTATTGA GGGAGGAGGAGAGATTGACCAAGTCTACATGCATAGACAGTCCCTAAAGCGTATCTCAACATG A

WI-21627b	153 A G ---	---	GCATGAAAAGAACTCCAATCAGACTTTATTCAATAAAGCAGCTTTTCATGAATGCTTCAGGTCAGTG TATGATCAGCTCAGCTTCCAGTATCAACTTGAGTACCTCATTATGGATAATTTATGCTAGGAATGACAA CAGTAAGGGCATTGCAAA[A/G]TCCAAAGTCATCTAATATTAAACCATATTTTACATAATTTGTAGG GACAGTATACTAATACTCTACAATAAATAAGGGTTTAAAAATGTGTGCTTA
WI-21627a	106 A G ---	---	GCATGAAAAGAACTCCAATCAGACTTTATTCAATAAAGCAGCTTTTCATGAATGCTTCAGGTCAGTG TATGATCAGCTCAGCTTCCAGTATCAACTTGAGTACCTC[A/G]TATGGATAATTTATGCTAGGAATGA CAACAGTAAGGCATTGCAAAATCCAAAGTCATCTAATATTAAACCATATTTTACATAATTTGTAGG GACAGTATACTAATACTCTACAATAAATAAGGGTTTAAAAATGTGTGCTTA
WI-21399a	75 C T ---	---	GGATTTAGTCCCAACTTGATCTCAAAATTCACCTTCTTGATGTAACAAGCTCATTCCTCTAAAGTT TCAGTTT[C/T]TTCACCAGTAAGGAAAGGTTGGACCAGACATGTTGGACCGTAATTGCTTGGTAA CTGCCCTTCTGCATTTGTCTGAGGTTGTGTGTCCTAGGACTAGGTAGGATCTCTCTTGTCTTCTGCC TTACCTAGGCATAGTGCCTGATAGCAGGCTGAAGCCCAATTCATACTTGT
WI-20329a	68 G A ---	---	CGATGCTGCTAAGATAGGAGGTTAATCTTTTACATGGTGAGTGGTCACAGAGACAAGACATCAAT C[G/A]TCTGTTAGCAGCGAGAGAGACACTTTAAGTTGCCCAAGAGTACAAATCCCATCTATGAGAC AGCAGTCTGGCTTCTTAAAAACAGTAAACCAATCAAAAGAAAGATTTAGAGGTTTCAGACATT AGGAACAANTGTGGCCAGAGATACACAGAGCCCTTGAAGGGAAAGGCCTCACT
WI-21249	155 T C ---	---	TTCTGGCATTCAAATGTACATGTAAATCCAATTTAACAGATCAAAATGTTACACTAAGTTTCACT TAGTATCTAAGTATCCAATCACAATTTGATCTAAGTTTCACTTTTAAAGAACATTATAAAGGTAATT AAACTCTAGGTGTATACTT[A/C]ATGAACTAGTTTATTCNATTTAACTACTGTTCATTGCGTA AAGTATGTTGTCCCAATTTTCAGCTGTTTAAAGGAATTTATAAAACATTGAGA
WI-21504	147 C T ---	---	TGACACAGCATCAATTTTCATGAATACTTTGAAGGGCCATTAGAAAAATAAGAGCCAATTTGGGTC ATTTGAGAAAACATTTTCAGACAATTTACAGTGGGGGCACGGCCGTTCCGGCTCCAGCTGGGTTTCCC AGATGCAACAAT[C/T]GGGGTTCTGGCTTCTCCACTGGTGGGATGGGGATCGGCCCTTCGGAGCTCT CAGGG
WI-21242	115 G A ---	---	CTGCACCAGGGAGGACAGCTGCTGGCAGGGACTAATAAACCTTCCACCTGGCCATGGTGGTGGTT CTCTATGGACCGAGGCCCTGAAACCGGGGCGAGGGAGGGGCAGAGAA[C/G/A]CACTAGCTTGGGGGTG GGCACCAGCTTCAGACCCCTT
WI-21475c	181 A G ---	---	TAGCCCTTCTGCCAACATCTGGCAATNTGAGGCTGGGTGGACGTTGGCCTGATGTTGCCAGGAGTAG GATGCTGATGCTGCCAGAGAGTAGTGGGCTCCAAACCCAGGCTTCTCACTTGTCTTACTAAGCACAG CAGTCTGAAGCTTGGGACCTGGGCAGTGGCTTCTGGAGAAAGGC[A/G]AAAAAGCCACAGCAGCAAC ACTTAGGAGCAAGACCCCTTCCCGTCTCCACCCTATTCTCCCTGAAG



WI-21475b	117 A T ---	---	TAGCCCTTCTGCCAATCTGGCAATNTAGGCTGGGTGGACGTTGGCCTGATGTTGCCAGGAGTAG GATGCTGATGCTGCCAGAGTAGGTGGGCTCCAAACCCAGGCTTCTC[A/T]CTTGCTTACTAAGCA CAGCAGTCTGAAGCTTGGACCTGGCAGTGGCTCTTTGGAGAGGCAAAAGCCACAGCAGCAAC ACTTAGGAGCAAGACCTTCCCGTTCTCCACCCCTATTTCCTCCCTGAAG
WI-20893d	207 A G ---	---	TGTTTGTTCCAGCCACATCTTCTCCAAAGAAACCCACCCAGCCGTTGTCAGGCTTGCTGCAGGG CTGCTTCGGCGTTAAAGTGTCTACTGAGGAATACAAATCATTGTACGTAAGTTTCATCACCCTCC AGCGTCAGGCCAAACCTTCCGTGGACCTGGNAAACCTGCCATTTCTCTCTTTTACAATGCAGT TTC[A/G]ACATAACATTGGTAGAGTAAACAACAAACCCACAAGCCTAAATG
WI-20893c	179 T C ---	---	TGTTTGTTCCAGCCACATCTTCTCCAAAGAAACCCACCCAGCCGTTGTCAGGCTTGCTGCAGGG CTGCTTCGGCGTTAAAGTGTCTACTGAGGAATACAAATCATTGTACGTAAGTTTCATCACCCTCC AGCGTCAGGCCAAACCTTCCGTGGACCTGGNAAACCTGCCAT/CJTTCCTCTCTTTTACAATGC AGTTTCAACATAACATTGGTAGAGTAAACAACAAACCCACAAGCCTAAATG
WI-19941c	71 C G ---	---	GAGCTCAAGGGGAAGACCCCTTACCCAGATAGGACTAACTGGAGGGTGAAGGAAACAAGGTGAAA GGTAT[C/G]GGTCTGGTGAGACAAAGCAGGGGGCTGAGAACACAGAGCAAGGTGGTTGGAG GGACACAGCAGGGTGCAGGAAGGAGATGGGGACATTTCCCTATCCAGTGCATGCCCCTTAAAT AAACTGGGTACAGGACATTNTGGAAGGAGAACCAAGGACAGAACAAAGCGG
WI-21552b	166 C A ---	---	TGGGTACATGGACAGATGTATATGTTTATGGTTATATGAGATATTTGATACAGATACACAATGTG TAATAATTACTTCAGAGTAAATGCGATCTCCTCACCTCAAGCATTATCCATAGTTACAAAGAA TCCAAGTATACCTTGATTATTTAAAAATGTA[C/A]AATTAATTTATTGAATTTAGTTACCCC ATTGTCTATCAAAATATCAATCTTATTCATTCCTTTGTAACCTATTATTGTA
WI-21552a	66 G A ---	---	TGGGTACATGGACAGATGTATATGTTTATGGTTATATGAGATATTTGATACAGATACACAATGTG /A]TAATAATTACTTCAGAGTAAATGCGATCTCCTCACCTCAAGCATTATCCATAGTTACAAAG AATCCAAGTATACCTTGATTATTTAAAAATGTACAAATTAATTTATTGAATTTAGTTACCCCA TTGTGCTATCAAAATATTCATCTTATTCATTCCTTTGTAACCTATTATTGTA
WI-21512	54 C G ---	---	TCCTCGTACTTCATGCTCCCTCCCTGCCCGAGAACCTTACAAAATATTTCTGT[C/G]TAGAGAGGA AAGAGCTGGTGCCTGCTGTGAGGCAACGTCCAGGTCCGGGAAAGGCACCTCGTGTGATCTGTC TCAGTATGGGAGGTCTCCACTCGCCCCACAGGACGCTCGGGGCCAGAGATGAGAATATGCTGTAA TCCAGTACAGGGGCTGCGTGGGGTCCCCAACAGCTCCTCTTTGGGGG
WI-21513b	192 G A ---	---	CACATAGTTTCTCAAGAAGAGGATGAACCTGAAAACCTCCTCTAAGGCAGGACAAAAGCAACTTCCATT ATTCTTAGTTTAGACCAGAACTTTTAAATTTATATTCCTCTTTAATAACTGTCAAAATACACCAATA CTTAGAGGAAAATATTCACAGTATACCAAAACATTTTAAGATAAAGAGGCAGTGTA[G/A]AGTAG TATTCCTACATACCACAGTATACAATGATGCCTTCCTGACGTTTAGGAAC

WI-21514b	133 C T ---	---	TTGAACCTCTGAAGGTGGCTTATGTCTCGACTCCTCTTCTAGGACTGGTCATGAGCTGACAAGCATAG AGGCAAAGTATCTCAACATTACAAAACCCCAATCTTCAAGAAAGGAGCACAATTACCATGGAGC[C /TACAGGACTCCAAAGGACCTCAGAAAGCATTTAGCCAAATCTCCTTATGCAGGAAATAAATGAGG ANITTAAGGCTCAGATGGGGTTAAGGGTGATTGTGCAAGGGTGCATAAGGAACT
WI-21514a	100 A G ---	---	TTGAACCTCTGAAGGTGGCTTATGTCTCGACTCCTCTTCTAGGACTGGTCATGAGCTGACAAGCATAG AGGCAAAGTATCTCAACATTACAAAACCCCAI/A/GTCTTCAAGGAAAGGAGCACAATTACCATGGA GCCACAGGACTCCAAAGGACCTCAGAAAGCATTTAGCCAAATCTCCTTATGCAGGAAATAAATGAGG ANITTAAGGCTCAGATGGGGTTAAGGGTGATTGTGCAAGGGTGCATAAGGAACT
WI-22020	27 C G ---	---	ATGAAACATGTTGCAGTGGGGATGAAT[C/G]TTATCATGATGCTAAGTGAATAAGCCAGACACAAAA AATCCAAATGTATCATTTCTACCTGTATGAGGGTACTT
WI-19576a	113 A G ---	---	TTATCGGTTCTTAATACAGTACAATCCTTTTGTGAAACAAAAGTCACACTGGCAATGATTATTTACA GATCCAAAATAGACTCAGGCTTCAGACATAAAAAATTTAACATT[C/A/G]TCTAGTTCAGTGATTAGT CACAGAANTTAAACATCTGCCCAGATGTACACAATTTGGTAAAAACTACAGCTTCTCTCCACGGGGA G
WI-21695a	141 A C ---	---	ATACACAGGCCACAATTGCAGGATGGAAGGAGGAGTGGGCACCTTGGAAAGTGAACATACACATGGCAATA AGCAGCCTATCTTCTTTACCACCAGAAAGTTCTTGGGGCATGTGATGGTAGGCCAGACCCCTTTCCAA GGGAAT[A/C]TACTACACTAAGCCTACACTGTACTGTGAGAGTCACTGGTGGAAACAAGGCCACAGGC AGTGGGAGGAAATGTGATGACTTCACTGTGTTCCAGANTTCTAAGGCCCAGCAT
WI-21574a	235 C T ---	---	AAACCCAGAAATTTAGGTACTTTTGTATTATGAGGAACCTCACTATACTAGGAAGCAACTTATGAGTG TGTAATATTTGATCTAGCAGCAACTTCCACTGATCCTGGCAGGTGACAGCTCTCAGTGAACAGCGC TCATCACCTAAAGTGAGAGGCTGTCTATTCTCATTTGTGAATGTCCTCAGAGTCACTAGGGAGCCATT GGCAGGCCAGGGAACCTTACTGCCTACTTCTCTTCTGCTGTCAGGTGGGA
WI-21644c	151 T A ---	---	TGACTGCCAAGATTTAGGCCCCAACCTTAGGAGCAAGGGTCACTCTAACCTTTCAGGAAGTCTTGGGT GTGACCCACTGCATAAATGGATTTTACCATANTATTTAACAGACTCAAAGTGTACATACAAGCTTG TTTCATAAATAAGGGAT/AJTTCAATCAAGATCCATGGAATGATGCAGTTTAAACATGTGTTCTCAGC TTGCCTACTGACCACCTTCTCTTTTCTAAATATGGCAACAGCACAGCAAGTC
WI-21614b	55 G A ---	---	TGCTTTAACCTCAAAGTCCAAATAAACATATAGACATTTTGANATAGCTATC[G/A]JTTTTAAACA AACCCTATTATGATCACTGTTGCAATTTTCAGTCACCTAAATACGGAACCATGACTATTATAAACA TTTACTGTGTGGGTTTGTGGGACTGAACATTAACCATACGTGTATTCTTAAGGTACTAGGGAGTT GGAACAGCTACTACGGGTCATGGTATTTTGGGAGTTGGCTGTGTGTGGG
WI-21615b	151 C T ---	---	GACCGAGAAAAAAGTCAAGGCATATGATGTTTGTGCAAGTATACATGACTATTTCAAGCTTATAGA GAAACTTGCAAAAAAGTACAAAGATGGCTATTTTAAATTTTACATATTAAGATAAGGATGGACT CTTTCAGTGAGTATTAT[C/T]JAGGACACAATCGACGGATGTAATCTATTTGANTTATACCATAGGCC TATCTATATTGGGCCAAAGGGAAGGTAGGATGGGTACTGTGGAAACGGA

WI-21981	61	T A ---	---	TGTCATCTCATTCTGGAGAAATCATAGATGTGGCAGAAATACATAATCTTGAAGAAAAAAAT[A]GTCTCCCTTATGGGTACTGTGATTTCAATAGGGTGTGGGATAAGTACATGACAACATGCATGGGATAGACACTCTCTCTACAGATCOGTCTTTGGGAATTACAGGAACATAAAGGATATAATGGATGGGTTATTACITTTTACATGTGGACAATCTAGTTGTAGGCGTTTAAGGTTAAATTTGG
WI-21660	120	C T ---	---	TCCCAACTAGCCTCTCAGTATTTAGATGAGGATAGAACAGATACGGTGTAAACAGCCTCTCCACTGCTTACTGTGTACCAAGAAGGCAGAAAGCAGCTCACCCAAAGCCTAACCTGGCC[C/T]TGTCTTTTTCAGGCTTCTCAGGATGCCACAGACATACTGGGAACTGGGATGCAGGAGAGCCAGGGTCTGTCTTCAGAGGGTCCACAGC
WI-19105c	211	C T ---	---	TGGAAGTAGCCCTCTGGACAGAAAGAAATATTTGTGGTCCATGTGGTTTGAGTCTGTTAAGAAGGACACTAAGGCACATGGCTGGTGATCTTTGCGTCATAGACACGGGTGAGCTCATGGTGAACCTCCTCTGTGTAGGTTTCCAGGGCTGGGCACAGAGGTGAGGGCAGAAATNTGGGGTCCCAGTGGATCTCCCGACAACTTC[C/T]TCCAGGGGCAGGATTTCCACCCAGGGCCAGGGTGTCCCG
WI-19105a	33	T C ---	---	TGGAAGTAGCCCTCTGGACAGAAAGAAATATTT[C/G]GTGGTCCATGTGGTTTGAGTCTGTTAAGAAAGGACACTAAGGCACATGGCTGGTGATCTTTGCGTCATAGACACGGGTGAGCTCATGGTGAACCTCCTCTGTGTAGGTTTCCAGGGCTGGGCACAGAGGTGAGGGCAGAAATNTGGGGTCCCAGTGGATCTCCACAACTTCCTCCAGGGGCAGGATTTCCACCCAGGGCCAGGGTGTCCCG
WI-21760c	81	C A ---	---	CAAACTTAGTCACTCTACTGATGCAAAATGATTTGGAGGTGTCTTCCTAGCTTTACAATAAGNGGAGGACCTTGACTGGA[C/A]CCTCTGTCTCAGTTTCAGGGCA
WI-21760a	35	A G ---	---	CAAACTTAGTCACTCTACTGATGCAAAATGATTTGG[A/G]GGTGTCTTCCTAGCTTTACAATAAGNGGAGGACCTTGACTGCACTCTGTCTCAGTTTCAGGGCA
WI-21569b	198	T C ---	---	TCTGCCATATTGTTCCAGCACCACTATTACTGTATTATTCTTTTGGAGAAACCAGGNATTAAAGAAATCTGGTTTGAATTTCCATGATGCCTAAGTATGTTTAAATCCTTTTCTTACCAAAAGGAACCTTCTAATCACCAGAGAAACAGAGGGAAGACTGAGATATGTTGCAGAAATTTATCTCTAC[T/C]AGAGACAATTCATAGTTCATAATCTTTCAGGGTTGTCCTTACTTGGGGGGC
WI-20934a	72	T G ---	---	CCAACATGCAACATAGTCTTCTTAAAGATACATAGTAAAGGTATGAAAAACATTTGTATTCAAGAGAA[T/G]TCTAAGACAAATGGTCAAAATATTCAAATGGCTGGCAGTAGTGGTAATCCAGCAGACAAACAGCATGAGAAAAAGCCGGGAGACAGTAATAATACGTGCCCATGCAATGAGTTACCCCAATCAAGCCCTTTACCTCCTTAAGATGGCAGATTAGAAGACCCCTNTTCCCCAGGAGA
WI-21561	55	T G ---	---	TTTCCATTTTATTACGCGGGCCATCAGAACAAATAGCATCTATACCTTCGAAACCTT[G]CCTCTTAACCTCTCCAGGCAAGAAAGGAAAAAGTGATCATATTGAATTCCTCAGAAATGGTGGGATCTCAAGACTTTTAGAAAGTGCTTATTAAAGTAAAGAGGCTTGAATATAATGATGATAAATGGTAGCCTTTCTGGAATAATTTTGTGTAATCTGTTTAAAAAGATTTTGGATGCATTGTCCCCA

WI-21961c	200 T G ---	---	AGCTTGGCTTGAAAATTTGGTACTTACTACCTTTGCAATTCCTTTATTATTATTATTACTTTTATTTTCCGTAAGTTATTGGGGTACAGGAGGTAATTTGGTTATATAAGTTCTTTAGTGGCGATTTGTGTGATTTGGTGACCCATTACCCAAGGAGTATACACTGCACCATACTCGGTCTTTTATCCCTCGCCCCCTTG/GJC
WI-21961b	73 G A ---	---	TCCACATTTCCCTCAAGTCCCAAAAGTCCATTGTATCATTTCTTAIGC AGCTTGGCTTGAAAATTTGGTACTTACTACCTTTGCAATTCCTTTATTATTATTATTACTTTTATTTTCC[G/A]TAAATTTGGGGTACAGGAGGTAATTTGGTTATATAAGTTCTTTAGTGGCGATTTGTGTGATTTGGTGACCCATTACCCAAGGAGTATACACTGCACCATACTCGGTCTTTTATCCCTCGCCCCCTC
WI-21956	26 T G ---	---	TCCACTTTTCCCTCAAGTCCCAAAAGTCCATTGTATCATTTCTTATGC CCCACTTGGGTCTCTTCAAGTGAATTTG/TCTCCTTTGCTTCTTAAAGCCTTTTAAATGAACCTTCCATTCTGTTCTGAAACTTGCCTTAGTCTGTTTCTGCTTCATGCCCTCAGTCGAATTCCTTCTTCTGAGGGCGCAAGGACTGAAGTTGCTGTGGACCTGTAGGGTTGACGCCGGTAACTCAGGGTAACTCCTATCTCTCCACCGGTAAACAGAGGGTTACATTATGGGGTCCAGTT
WI-21966	148 G A ---	---	CAAACATACATTATGGCTGCCTTTATTTAAGAAATGTTTACTGAGAATCTGTACTGTAACAACATATTTTTGTTAGAAGCATGAGTGAGTGTTGTGTGTGTCGCCGCCGCCGCGCATGGCACTGAGGTTGATTGCAATGGG[G/A]AACAGGATAAAAGGTATAAAACTTGGTCCGAAATCTTTGCTTATTAACTTTGGCCCTGCTCTCACAATGTTTCTACACTTAATTCATAAGAGAGGTAGA
WI-21930c	146 G C ---	---	TATACTGGTTTTTGGTTACATGGATGAATGTCTAATGGTGAAGCTGAGATTTTAGTGACCCATCACCTGAGTAGTGATACATTGACCCAACTTGTAGGCTTTTATCCCTTACCCTACCTTCCACCCCTCCCCATTTTGAGTCT[G/C]CATAGTCCATTATATCACTCTGTATGCCCTTGCATACCCATAGCTTAACTCCC
WI-21139a	165 T C ---	---	GCTCTAGTGAAGAAATTCAGGACGGGTCTTCAGAGCAGAGGGCTTGGTTCAAGTCCCTGTTCTGCCACTTACTAACTGCATGACCTTGAGCAAGCCACTTAATTTCTCTGCTCCTTCTCTGTGAATGGGTACAA
WI-20317b	217 G T ---	---	TGTGGGTCAGCAGTAAAGGAACATAACATTC/GTACAGCACTTCAGCACAAAGCCTGGGCACACAGCACTGCATGGAATACACAGGTAAACATTTTAAACAGTGGGGACAAAATTTAAGTACGTGGCCAGCTGTTGGTTGCTTGTGGTCAATAAAGACAATGTTAAGANTCAGGAGTACTTAAAGTGTAGTGGTTACA
WI-22082e	179 G A ---	---	AATTTTGTCTCTCAGTTTTTTCATTAAAGTAAATCTTAATAGATGATATACATATTACTGCAGATAAAACCATCATCAGAAA[G/T]TAAATTAATTCATATTTTGAGGCTACTCT CAGGACTTGGTTTGTGCTCCCACTGCACATAAATGTCCCTTTTGTGAGTTATGGTTGTGCGTTTTTCTCTTTTGCATAAGAAATATGTCATTATAGTCCAGAGGCTCTGCTTTATCCGGATGACGGAGGTACACGGGGCTCGCTCAGTTCCCGCGAAGGAGTATC[G/A]CTGAACCTGGGACGAGTCTACTCTCCCCACAGGAGCCACGATTTCAAATCTCTTTGTCTGCAACCTCT

-271-

WI-22082b	67 C T ---	---	CAGGACTTGGTTGCTGTCCAACTGCACATAAATGTCCCTTTTGTGTTGAGTTATGGTTGTGTG[C /T]GTTTCCCTTTTGCATAAGAAATATGTCCATTAGTCCAGAGGCTCTGCTTTATCCGGATGACGG AGGTACACGGGGCGTCGCTCAGTCCCGCCGAAGGACGTATCGCTGAAGTGGGACGAGTCTACTC CTCCCCACAGGAGCCACGATTTCAAATCCTCTTTGTGCAACCTCT
WI-20993	139 A G ---	---	AACACAAACTCCATGCTTTCAAGATCCACACCCAGATACTAAGACATAATTAATAATTTACAGCAAT TAAACAGTGTAGTTGGTACATAACACATATAGCAATGATACAAATAGGGGAAAAAACCCCTGG GCTTCT[G]A/G]AACAAAGTGAGTATACATTAAAGACAGTATTGCAGAAATGGCTCAGGATTAATTTGA TTAATTTAGAGAGAGCCTATTTCAGGCTCTCCTAGCTCATCCACACATCACC
WI-21723b	125 A G ---	---	AAGCGATTTTATTAAATTGATTTGGACATACTGTAGGTCAAATAATAATTTCTGAAGATAACAATTA TGGACTTTAAAGCTCGACATAAAATAGTAGCTTCAAAGGGTTAGTCATATTTCCCA[A/G]CAACA GCATGATAAAATAATTCAACTATGTAGAAATATAGAACTCTAGGACTAGCTGGGAAACTCGGAAATC ATT
WI-21723a	82 G A ---	---	AAGCGATTTTATTAAATTGATTTGGACATACTGTAGGTCAAATAATAATTTCTGAAGATAACAATTA TGGACTTTAAAGCTC[G/A]ACATAAAATTAGTAGCTTCAAAGGGTTAGTCATATTTCCCAACAACA GCATGATAAAATAATTCAACTATGTAGAAATATAGAACTCTAGGACTAGCTGGGAAACTCGGAAATC ATT
WI-212132	99 T G ---	---	CAACAGATGCTTGAGCCAAAAAAGCAACATAGGCAGAAATACAAATTGAGAATATCTTCATGTTTC AACCTTTAATCTGACTTGCCTTTACTATCCTT[G]CCCCATTCTCTAATCTCTTTGCTTACAA TATATTACCTTCTAGGTATCACCTCATCCTATAGGAATGCCTTCTAGTTAATGCTTCCCCAAACA ATACTAACCCATTGAAGGATAACTATGGAAACCTTTAAATGGGACAGTGGG
WI-21006a	106 A G ---	---	TGACAGATCACACCACATTTGTTGTAACTTTTCTCCTTCAAGAGTCACCTTAGCTTAAGCCAGAA GATTCTCTTAAAGAACACATACACACATGTGCACACAC[A/G]AGAGGCAAGTACAAAAATGTAACC CCACCAAGTGCATGTGAATGAAAGTGCAAAAAGGCTTCAATTTGCAAACTCTGAGGATCATTTCTCT CTGCTTCAGGAAAAATAACAGAAAGGTCCTAACTGCCCTAGGCCT
WI-21761b	138 C G ---	---	CTGAGGCTGCTCTAACTTCATNTGACGGAGCGAGTTCTCGCTTGAAATAACTGAAAAGATTTCAT TTTCTCTTTGTACAAAGGATTCAAAATATTTACATCTTCTCTGCCAGTTAAACGTCGCCGTGG CTC[G]CAATACACACCAAGCCAAAGCGTAACTTGGCTGCCTCAGGAAGGCTGGGAGGAAGTGCCAG ATGGTA
WI-21079c	166 G A ---	---	AATGAAAATGCCACCCAGAGGTTAACAGCTTGCCATGCATGCAACTGTGTGCGCAAAATCAAGTTGT TTTAATACCAAGTGTGCAGCTTTGATTCCTCCATGAAATTAAGCTGTGTGCTCAGTTGTTTACATAA CTCAGGCCACCCCTGAAATATCTGCTAGTGGG[G/A]AATTTACAAACCCACTGACCATCTCAGCTCAAA GCCAGATGACTATCACCTACACATCTGCCAGGGTAATAGGCATGGGCAAT

WI- 21079a	50 G A ---	---	AATGAAATGCCACCCAGAGGTTAACAGCTTGCCATGCATGCAACTGTG[G/A]CGCAAAATCAAGT TGTTTTAATACCAGTGTGCAGCTTGATTCCTCCATGAAATTAAGCTGTGTTGCTCACTTGTTTACA TAACTCAGGCCACCCCTGAAATATCTGCTAGTGGGAATTTACAACCCCACTGACCATCTCAGCTCAAA GCCAGATGACTATCACCTACACATCTGCCAGGGTAATAGGCATGGGCAAT
WI- 22129a	45 T G ---	---	TCTGTAGATTTTAGCCATGCCATATATTTAACTTTTAAAGGAAAAGT[G/G]TTATATAACAGTCATTGCT TGGTAGAATCCAGTCTGTCAATAAGTTAGCTTAACAGTTAACAATTGAAGCTTTATACCTTATATTTA AATGTTTAGCAATCTCTACTACATTTTCAAATATAAATAATTTGGTTGCAAAATCCAGNAAAGGGCA TTAACCAACATGGGACTGATCCTGGGGGCTTCCACCTGACTAAGGTTTTA
WI-21941	79 A G ---	---	TGGAGTTAAGTGGGGCTCTGCTATTTCCCCCAAGAGGACTCGGAAGATGTTGATTCAGGGCAGAGT GAGGGCAGAC[A/G]GGATGAGGCTCTCTGTAAAGTCCAAAGACGCTCACAGATGCTGGGAGGCT GGGACTGCCAGGTTGGGAGCTCACCCAGAGAGGCTCACTGCATTTGACCCCAACACCCCACTCACC CAGCACACAGGCACACGCGAGGGCACACGCACACAGNTGCACTCACCAACGC
WI- 18916b	42 C T ---	---	AATGGCATCCCTGTCGATACCAACATCTTCAGCAGCTCAG[C/T]GGCTTCCCACCTCTTGGTACCC GGTTAACTGCCAGNGGGTGACAGTGATGCCAGGGCTCGCCCACTACTGCACTGGACACAGCCTCACC AATGCCACCTTCATA
WI- 18916a	35 G C ---	---	AATGGCATCCCTGTCGATACCAACATCTTCAGCA[G/C]CTCAGCCGGCTTCCCACCTCTTGGTACCC GGTTAACTGCCAGNGGGTGACAGTGATGCCAGGGCTCGCCCACTACTGCACTGGACACAGCCTCACC AATGCCACCTTCATA
WI- 19828c	200 A G ---	---	TTCCCTTCTCCCCAAGAGTGGGCAGAAAAGCTTTGTTAACCTCCTTTTACAGATGAAGAAAAACAA GATCAGAGGTGCTAAGTGTGTAGCCTAGTGCCAGGNCITCTGGCCCAATTTCTGGTTCTCCCCAAG CCCATGCTTCTCCACTTCTCACAATCTTTACTTCTCTGACCTCACCACCCCAAAATTA/G ICTTTTAATCTGGAAAAGAACCCAGCTGCACACTGGGCGCACACTTGACCT
WI- 21863b	47 C T ---	---	CACAAGAGTCTGTACAACCTTAGGGACACCCAGCCCTGGCCCTGCCC[T/C]TAGCTGCATGCCACCCTC ATATCCACCCCATCCCCAGCCTCCTGCCCGACACCCCCAGGCTCCCTGCTGTGTTGAAGTATTTT CTCCAAGGCAGGAATGAGTCTTGATCCAAACACAGCATCT
WI-19860	51 C G ---	---	TTGACCTAAAGCCTAGCATAAAATTAGCTAAGTAGAATGTTTCCAAAGATG[C/G]CTGCATCAGTAT CTCCCATCCACATAATTTCTGTTGATTTTGCCATTCAACCCATAAAATGGTGGGATCTACCTCCCCT CCTTGCAAAATTTGAGCTGNNCTCTGATCCTGTCTAAGGATCTGAAGCC
WI- 19889b	80 C T ---	---	ACCCAGCTCCTCTTACCCTCTGGCTTTCAGTAGGCTTTGGCTAATGGCCANTGAACTGCAGGGCAAG AGGAGTGAGGGG[C/T]TACAGCAATTTATTTCCCTCTTCACTCCCTGTTAGCTTTGGTAGTGGCTGTAT TTCTCTACTGATAGTTCTTGGCCACAGTCGTAACCTATTCG

WI-19891c	172 C G ---	---	TGTTGGTCTGAGAAATTCACAGCTTACTACAAAGGAAGCTGAGAAATTCGTTGGTCCCCCTCCCCCCCCG ACTCCTCTGTCTGGGAAACGTGGCTTTGNCTCCAGACACGTCAGATGCCAGCTCTCCTCAGCGG AGCTCCCGATCCCTCAATTTGCCATCTGTCTGACTC/C/GCGCTTCCCCGGCGTGGGGCGTCTGTGT CAGCAGCGCGGGGAGGAAGGAAGGAGATCCAGGGTCTGTCTG
WI-20155a	81 C T ---	---	GCACCTGAGGGGTGAGCTTCACATGGTTCTCCAAGCACGGGCTGTACATTACCCCTTAGGCTGACCAT TCCCTTGGGGGG[C/T]GCAAAACTGCTTTGAGGAAATNTCCAGGAGGAATAAACTAGAAGACGC ACCTGCTATTTCCACATACATATGGAGAATACAGCTAATGAAGTGGTGGCAGAAGCTTGGCCGTGTGA GTGCCCCAGGGTAAAGTCTCTCTCTGTCAGTCCAGAGCAGACTTCTC
WI-20270b	91 T G ---	---	AGCCATACAATGCATTGCAAGAAGAAACAAGCAGCTGTACAGGAGTGGGACGCGTCAGTGTACAAT ACATTCATGTCCAGGATAAGGAGCA[T/G]ACACCAGGATTTATACACGGTGGCAGCGGTATAGGCA CGATGATACAAAATATAAAGTATATTTCCATCTATATAAATACACAGCTGGGTGGGAAGGATGCT GGGTGATCTGTTTCCCCCGCAGAGGGCCTGGGAGCGGGNGGGTGGTGGAA
WI-20270a	53 G A ---	---	AGCCATACAATGCATTGCAAGAAGAAACAAGCAGCTGTACAGGAGTGGGACGCG[G/A]TCAGTGTAC AATACATTCATGTCCAGGATAAGGAGCATACACCAGGATTTATACACGGTGGCAGCGGTATAGGCA CGATGATACAAAATATAAAGTATATTTCCATCTATATAAATACACAGCTGGGTGGGAAGGATGCT GGGTGATCTGTTTCCCCCGCAGAGGGCCTGGGAGCGGGNGGGTGGTGGAA
WI-20622	130 T C ---	---	CCACTTCAATATTTTACAAAATGCTCAGCGAGCAATATGAAAAGCTTCAACACTTCCCTTTTGA ACTTGCTGCAATAAATGCAACTTAAACAACATACAAATTTCTCTGTATCTTAAAGTTGAA[T/C] TACTAAATTTTATGATGTTACTCATATTTTATTCATATACATCTTTAATGACATCATTGCCAAATACATA CATTATTTCTNTAACTTATTTTACAAATAAGCCAACATCTGTCAATGCAG
WI-20768b	190 C T ---	---	TTCCTCACTAAAACCTCCACCCCAACCTTCTCTGGAAGGCGGGCTAACAGGACCTCCTGCCTGCCTGC TCACGACTGATTACTTTCAATCCAGCTGCAATGCAAACTGAAACTCATTTCTGTATATCACCACTCTA CAGGAGAGGTCTATTTCTGGGACCCAGAGNTCAGCACACATACCTGCTGGG[C/T]CAGGGACTC GTAATTCGCTTGGTCCAACTCCTTCTATGGGGTTAGCTGCCCTCATTC
WI-20768a	71 C T ---	---	TTCCTCACTAAAACCTCCACCCCAACCTTCTCTGGAAGGCGGGCTAACAGGACCTCCTGCCTGCCTGC TCA[C/T]GACTGATTACTTTCAATCCAGCTGCAATGCAAACTGAAACTCATTTCTGTATATCACCACT CTACAGGAGAGGTCTATTTCTGGGACCCAGAGNTCAGCACACATACCTGCTGGGACCGGACTC GTAATTCGCTTGGTCCAACTCCTTCTATGGGGTTAGCTGCCCTCATTC
WI-21909	153 A T ---	---	TGTTTGCTTTGTGCCAGGTACTCTACTGCTTTACATAAAATATCTCATTTCTGTCACATCTAACGGCAA CTAAGTATACGTTACATCTGCTAGTGGCACCTAAAATAAGGATATTGTTGGTCATCTTTAAAGAAA TGCTCTAACATACCAAAG[A/T]AGTGGAAATCAATAGAATAAAATATTTAAGTCTTACAAAGCGTAC GACACTAAAGTAATATAGGATACCACCTAAATTTATTTCTATGATGGAAG

WI-22202	128 A G ---	---	TGTTGCTTTGGTTGTTGCTTCTGGAACATATTGGAACACTTGTTTTTCATAAGCTGTCTCAGAGT GGCACAAATCCCATCCATCTTCAGGCCTTTTAAAGGTCAATTATGAATCTGAATTTCTA/GJTAAAT ACTCTGGTGCAATTCATTTCACTGCAAAAGCAACTGGCACAACCACTCCTTGCCGGTGAGCTCTCGG AGAACATCTAATATTGAGTCTAGTCTGTGCGGAACCTCTCCAGCTCAC
WI-22189	70 C T ---	---	CCAAGGATGAAATTTCCACATTTATTTTNCITTTATGTGAATAGAAAATGGCAGTGAAGTGTCTCTATG AACTTGAGCGGAGGAATGGCATGGCGCTGCGGTACCGCTGGACGTTGTGCTTCCAAAAGTACAC TATGTGTGGTGAGACAAAAGGGT
WI-22283	109 T C ---	---	GGGAGGCATCATAGAAAAAACCCCTCAGCCAGAAGTTAGGACATTTGTGATTCTCAGCCACTAACGA GCTGTATGACCTTGGTCACTAGGCCTCTGCAGGCTCTGGTTGT/CJTTCATTTGCAAAATAAAACCCA GACCGGTCATCTTTCAGTCCCTCCAGCTCTATTATTTATGATTTGCTCTTAGTCTTTATGAGCCA TGATGATTTATCAGTCTCCCTGATGCACTCAACTCCAATGATGCAAAAAG
WI-22290a	136 C T ---	---	GACGTCACTCTGAGGGCTCTGCCAGGTGGATTAGGTGAAGAGAGGTTTTATGGCCTCTAAGCACCG GCCAGTAGTGGGGAATGCCACATGCAATGGGTGAGTGGGATCTGGGGGGTCAAGAACCTTGCTTTT C/TJTCCAATCTCTCCTTCTTAGCCAGAACTTGCAGAGCCCTTTNATTTCTCTCCCTCTATTCC CCTCCTTTCCCCAAATGTGCTAAGGTCCCAATCCCAGACCCCTCCAG
WI-22292	53 A G ---	---	CCAGTGAAGGGTTTACAGCCATAGTGAGGTTCCCCCATTTGCTCAGTACCAGA/A/GJTTTGAGTAC GGTCGTTTAAAAAATACTTATCTGACCACAGTGGAAA
WI-22387	186 C T ---	---	ACCTTGACACCTGCCATCCGGTGCCATCTCCTGGCTGGCACATCTATACCCACTCTGGCTCTGAAAG GCTTGTAACCAAAAATGGCAGCTGGGCTAAGGCATATTTAAACAAAGGCTCCAAAGGACCCCTT TCACTTGGGTCTAGCATCCAGCCTCTCTCAGCAAGGAGGATTGTGGT/CJTCCCTTGTGTTTTCTG AACAGGCCCAAGGCCAGCCAGGCATGCCATCACTGCAGCACTCAACCCCT
WI-22395b	127 A G ---	---	GCCGTTCCAGTATTGATAATAATTTGTGTTTAAATTTCTATACAGAAATGGTTCTTTCTTGAATATTTT GTAGGGATGGATGAATTGAAAGTGAATTAAGTCAAGATAAAGGGGGCAACTCTTTAAT/A/GJAAG GAAATGTTACCAATCCATAGTGAAGAGTAGAATATGTTCTTTTAGAGTAGNTAGAAAGTCCCCCAGG CTCCT
WI-22405	90 A C ---	---	TTTATGGCTCCTGAGTGCCCTTACCAGCTACACTTTACCTTGATCTATAAAAGTGAATTTAGAGT AAATACATTGGCTGTAAGTCCG/A/GJATCAGGTGCTCTCCACCAAAAGCAAAACAAAACACTGCTGA AATGTGGCAAGTTTCTCAGTG
WI-22419b	67 T C ---	---	CCCTCTGGACAGTTTGTCTTATGTGTTTCAGACAATCAAGGNTCCCTTCCAGGCACAGCCAGTGCJT /CJCTGGATGGCATCAGCAGGCTCCCTGCCCGGCCCTTGAAGCATGGCTGTGTGCACGAT
WI-21342d	59 T C ---	---	ATTTCCCTTCTGTGTTTCGTAATTTCCCTTTTGTGAGTAAATNAGCAATACACTGA/T/CJTGGAA ATCTGCATGATTAATAACATTAAAGTTCATAAACACACCCCATATCAGAGTATAAAGCAAGAG GTTGAAAAATATCCCTAACCGAATGCAAAATAGGTATCCCTCAAAATTTGCACATTTCTCCTCTAGTT T



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WI- 21763b	154 A G ---	---	CATACCCTTTAGGTGCCCACATTGATCTTAGTTAACAGTCTTGTAGTCCCTCTTTAGGCTTCAAGA TAATTGTGATTTTCATCGCACCCAGATACTTCCAAGTGGAGCCAGGCTCAGACTGTTCTCAGTCACT GCTCTCCACAGCTGATTAGCAGACATTGCCTGTGCTTCTTACCCAGCAGCTGTCTAGTGCACCT GA
WI- 21763a	135 T C ---	---	CATACCCTTTAGGTGCCCACATTGATCTTAGTTAACAGTCTTGTAGTCCCTCTTTAGGCTTCAAGA TAATTGTGATTTTCATCGCACCCAGATACTTCCAAGTGGAGCCAGGCTCAGACTGTTCTCAGTCACT T/C/GCTCTCCACAGCTGATTACAGACATTGCCTGTGCTTCTTACCCAGCAGCTGTCTAGTGCACCT GA
WI-22440	64 A C ---	---	CAGTCCATTTGAGTCCCCAGTGGGTCATTCTTCCCTTATCTTGTGCTTAAGCCACTTGGGTAA/C/] TCCATTCCAGCTCTGCACCTTCTCCAGTTTCTCATGTGAGAAGTCCCTGGAGGGAGGCTTTCTGG AAAT
WI-22449	74 T C ---	---	CAATGAATGTTGTGGCATATGATTNCCATTGTGTGACAAATTTATTAGCTGGCATCCGAAATACAGTAC TTCCTTTT/C/GAAAAAATACACAATGGGAAC TGACA
WI- 21965a	112 A G ---	---	CAGGTTCCACCAGAGGCTTTATTTACGCACCTCAGGACCCCTGCTTCTGCTCCAGGCACTGAACA CAGTCAGGCTCTTCTAAACACTGGCAGGACCTCCCCACAGCC/G/CCCCACAGGGTTCTCTGTT TCCCAAGTCTGATGGATTCAGGCAAGACCTTCACACATTACCCACTACCTGCTGGAGAGGAGGTC ATGAGGCAGCCTGTGTGCCAGCTCAGTGTGACACACTGCCAATGTGC
WI- 21687c	115 C G ---	---	CACCTGGCAGTTGAGTCAGATTGTAGGAAAAATTAACCCAGATGGGTCTACATTTTNTCAAGTTCA AACCACATGGTTTCTAGTCAGAAAGTCTCATGGACTTCTTCCTAAGC/G/JTGTCTATGATCAGAC CACCTCCTAAATGTGGCTTTTACCCATTACAGGCTACAGTTGAATCAGGAGGAGGAGCTGCTGGAG AG
WI- 22374a	149 T C ---	---	AGCTTTTACAACAAAGCAGGGTTTAAGGAGCCTGAGAAGATTTCAACAATTTGACTATACAGAG TCTTCAATTCACAAAAACAGTTAATAGTAACCTTGGTGGCACATACAACATGCATTGAATACTCTGTAT TATTCAGTAACTAAAT/C/JAGGNTCCTGCATCATCTCTTTCACA
WI- 22250b	132 C T ---	---	ACTGTCTTCAGGCAGGCACTTCTGGGATCTAAACTAGAAATCCTTGAACAAATAGTACCAGCCA CTTTGAGGAATGTGCACTTCACTGTAGTGGTTATTATGGGGTCTCTGCCTCCTGGCTGTGTTATG/C/] GGANCCAGGAGTGGAGGAGCCGTGGAAATAGACAGGGGAG
WI- 22250a	89 G A ---	---	ACTGTCTTCAGGCAGGCACTTCTGGGATCTAAACTAGAAATCCTTGAACAAATAGTACCAGCCA CTTTGAGGAATGTGCACTG/A/JTAGTGGTTATTATGGGGTCTCTGCCTCCTGGCTGTGTTATGC GGANCCAGGAGTGGAGGAGACCGGTGGAAATAGACAGGGGAG
UTR- 04932-2b	192 G C ---	---	GCAGCCATCCTCCTCTCCACACCTCCAGGCCACCTGGGGCAGAGCACCTCATGCCAGCAGCAC CTACGTGGCCCGAGTACGACCGCTGGCCCCAGGTTCTGGGCTCTCAGGACGTCGCCAGCAAGTGGA GCCACAGAGGTTTGTCTGGACTCCAGCCAGGAGGATAGGCCAGGCCAGCAACCTG/C/JAGTGTCTC TTTGACGGGGCCCGCTGCTCAGCTGCTCCTGGGAGGTGAGGAAGGAGGT

UTR- 04932-2a	149 C T ---	---	GCAGCCATCCTCCTCTCCAAACCTCCAGGCCACCCCTGGGGCCAGAGCACCTCATGCCAGCAGCAC CTACGTGGCCCGAGTACGACCCCGCTGGCCCGAGGTTCTGGGCTCTCAGGACGTCGCCAAGTGGA GCCAGAGGTTTGC/TJTGGAAGTCCAGGCCAGGGGATGAGGCCAGCCCCAGAACCTGGAGTGCTTC TTTGACGGGGCGCGCTGCTCAGCTGCTCCTGGGAGGTGAGGAAGGAGGT
stFIBBb	412 G C ---	---	GTGAGGAAGATGGACCTGGACAGACAGTCAGCTCCACACCTTGGCTGAGCAGCTGTGATTGTGCCA CGGAGCATGAGCCCTTTCCCCACGGCCCTTGGCAGCTGCTCCTGGCCCTCTCTGATCATGCCAGG TTTGACCAAGCTCGAGTCTCCCATGTTGTAGTACATTTCTCCAAGATGCAGCCAGGAGCCTCTCTGA AGGACCACTGCTGTTACGATGGTCTGAGCTTCTTAGAACCTTCCATGGTT
stFIBBa	341 T C ---	---	GTGAGGAAGATGGACCTGGACAGACAGTCAGCTCCACACCTTGGCTGAGCAGCTGTGATTGTGCCA CGGAGCATGAGCCCTTTCCCCACGGCCCTTGGCAGCTGCTCCTGGCCCTCTCTGATCATGCCAGG TTTGACCAAGCTCGAGTCTCCCATGTTGTAGTACATTTCTCCAAGATGCAGCCAGGAGCCTCTCTGA AGGACCACTGCTGTTACGATGGTCTGAGCTTCTTAGAACCTTCCATGGTT
stIGLV2	61 T C ---	---	GTCACAAGAGGCGAGCGCTCTGGGACGTCTCCACCATGGCCTGGCTCTGCTGCTCCTCACT/CJCTC CTCACTAGGACACAGGTGACGCCCTCAGGGAAGGGGTCTTGGGACCTCTGGGCTGATCCTTGGTC TCCTGCTCCTCAGGCTACCGGGGCCAGCACTGACTCACTGGCATGT
stSG1001 7c	70 T C ---	---	GTTCAAGGCTCATCTGAACCTCCTGGTGTCAAGCGATCTCCACCTCGACCTCCAGGGTGTGGGAT TA/T/CJAGGCATGAGCCCCACACCTGGACACAAATACATTATATACTCTAAAGTATAGGATTACT TTAAGAGAAGGAACTAAAGTATGATGGCTTACTTTCTAATCC
stSG1001 7a	33 G A ---	---	GTTCAAGGCTCATCTGAACCTCCTGGTGTCAAGCG/TJAJATCCTCCACCTCGACCTCCAGGGTGTGG GATTATAGGCATGAGCCCCACACCTGGACACAAATACATTATATACTCTAAAGTATAGGATTACT TTAAGAGAAGGAACTAAAGTATGATGGCTTACTTTCTAATCC
stSG1002 3	63 A T ---	---	TAATGATAATTAGGGCATTTCTCCACACGAAGATGACACAAATTGACCCAAATATCATTTGAGGC[AT] AACAGTTTGGGCTGTTTTCCAGTAGTAGACAGTGA
stSG1009 6	36 G C ---	---	GTGGAGAAAGATCGTCTTCTCCTCCCTCCCATGACC[G/C]GGCTTCCCGGGGACCTGTGCGTTTTCC ACCCGAGACGGCCTTTGTAGGGACCCACTGCCACTCCGCTGCTGTGGCTGGGTTCCGCTCCTAG GGCTCGAGTGTTAAG
stSG1011 8	107 C A ---	---	TAGGCTTAACTGGAATCTACAAGCCAAAGTCCCTCCCTGCCTGAGGGCAGTACCCCTCCATTGGGC ACAGTCCAGACCCCAAGTCAAAGATGCCCATTCCTTGGC[G/A]CTCAGCCCTCAGTTCCTTCATTCC ACCAGGCGGTGCTTGTGAGTTTCTCCTCCAGTGAG
stSG1012 0	89 T C ---	---	TAGTAGGTAAGAAAGCAAGGAGGATTGCTTATCGGATGACTGTTTACAGTGGTGTGAGACTATGC CGTGTTCACGAACACTTTAATA/T/CJGTTGTTGTAATCTGATTTTATCCTCGTCTTACAAATG
stSG1017 8	42 C T ---	---	TTGAAGCAATATTGTCTAGCACTCTGCTGGACATTAAGTCCG[C/T]GGGAGGAGGAAGTGAACAGGAA TCGATCTTTGTCTTTAACTGCCCTTAGTAGGAGATGTTAAATACTTGGC

stSG1019 3	136 GA ---	---	GGAACAATACTACCTAAGGACAAAATACTATTATTAACAAAAAGTCTTCTAGTGATATTTGTAA CACATTTCTGGAGCTGGTAGGAATAACCAATTTTATTTTCTGTAGTGCCATCTATACAACTTTTAC TIG/AJTGGAAACTGAGATTTAAGTTGCAAACT
stSG1020 2c	143 GT ---	---	AAGCTAACTTAGGTGAATGGTGCCACTCAAAGGCTCTCCGAGGGAAGCTCAGTCCTGGCTTGGGAG AGTCAGCCTTGGTCACCTCATAACGGGGCTCCAAGCTAAGGCGTCAAGGAAGCAGTCCCACTGCTTCT CGCTGTCAIG/JCAAGACCACAAAGGCAGATGCCCACTGCTGCTCTTCTTCTGTCTACTTCT
stSG1020 9b	75 AG ---	---	TCCTTTCTCTTTTCACTCTCAGTCACCATGATTCACAAATAAACTAAATCTCTCCTTAAGATCCCACCTTAT TTTTA/JGJCTCCAATAAATGTAATTATCAGCTGCTGAATT
stSG1020 9a	34 CT ---	---	TCCTTTCTCTTTTCACTCTCAGTCACCATGATT[C/J]AAATAAACTAAATCTCCTTAAGATCCCACCT TTATTTTAACTCCAATAAATGTAATTATCAGCTGCTGAATT
stSG1021 8	29 TC ---	---	TACTAGACATGCAAAATGAGAAGATTACA[T/C]GTGAATATTTAAAGAAATTATTTGTTTGACAT AATATGCAATTGTACCCGGGCATAATAAAGTTAAAGCCAGTTATTCTGA
stSG1025 2	108 AC ---	---	ATAGGTTTCAGGAACAAAATCATTAAATGGAAAAATGAGAAGAAATCTTTATTTTGGACCAATTTT AGGCACTTAAGAGTTTCTTTCTCTCTCTTCCCTTTGATCA/JC/JAGTGAAGATATGATAGGGAATTC AGAAATTTCTCTCTTG
EST10915 0	123 AC ---	---	CTGTATTAATTAAGAAAGGCACTATTAAATGAGGAGGAAAAATCTACCTGTACACAAAAATCTGTAC TTTAACAGCATCTTCAAAATAAACCTTTAAAGGATAATGGTTACGATCATTTTAAAG/A/C/JATTTTAA GAACTGAGTTATTGGAC
EST11023 1	166 TA ---	---	TTTTTGTAAACCAACCACTGAAAGTTCCACATGTGAAATATAGATACAACAGTGAACAAAAT ATGTGGCTCCCATGTACATTGGTTACCTATGTACAAGTATCTATACACCAGTAAACAGCAGGGC AATTAGTCAATTAAAAAATAGTACATGTTA[T/A]JGTGTAATAAAATTTAAATTTACAAAGGCTTT TCCACTCGTGGATTGTCTCTTTTGGAGGAGGGAGTAATCCIGG
EST14096 8	71 GC ---	---	GGGATGTATATTACAGATAACACAACCTCACAATATACCATCAGACATTGAAAACTAAGGCCATTCT GTGA[G/C]JTATTTTAAACTTGGTGTGTTTGCACATAATGATCTTAAAAAATAATGAATTACCAAA ACCAAGATTCTCTTCTAAATGAAAATTTAATGCAGGTACAGGATAACTTTAGGGCTATATCTAATC TGAAG
EST22113 6c	125 CA ---	---	TGCAAAATTGTGAGAAGCAGCAGGGGCCAACCCCTGGGACCTCATCTCTGTCTAGAAATGTGAGGTG CAGGGATGCTTAAGTCTTCTCTGGCAGAGACCCGAGGTGCAGAGATGATTCTTCTCA[C/A]CCCTTC TCTCAGGGTCTGGAG
EST22555 7	60 GA ---	---	TCAAAGCATGTGTAAGGCACCTGCCCCGCCAGACOCCTTCTAACTTCTGCACACTGGAAGGT[G/A]AAA CCTGGGAGAGAGAAGACACACTCCCCCTCCCTAGCTTCTACCTGGGACCCCTCCAAGATGAGCAATTCATC TTGGAGACCAAAATAAAAAAGGACAAAAGACCAGGGCTCAGAG

EST22917 6	74 C T ---	---	GTAAACCTTGCAAACGCCATGCTAAATGGAAGCCTGACTGACCAGGGGCTCTTGGGCTCTCAATGCA ATAGAAA[C/T]TGACATGGGGCCAAAAGACTTCCAGACAAAGCAGCGGAAGGTAGAGGATATAG GTTAGCATCATCTGGTTGTGA
EST36458 6	65 A G ---	---	CAAGTTAGAACCATGCATCAGCTTTTCATCCATGGTGAACCTAACCCCTCAGGCTGTCCTACTCA/A/ GTTGGTTTGTAGCCTCACTCGCACACAGGAAGCTTGGAAATTTGGAGGCTCCAAGTCACTCTCCA GAGGGGAACTTCAAAGAGGATTCCACAGTGAAGCAGATCATGGGGCAAAAGTC/A/G]CTATGG GGCCAGACTGAGGTTGGAACACACACAGCACTCCAAGCTGGGCAATCCCAACCGCTGGTGAAGCCGC ACAGCACGGAGTAGCCAT
EST36745 3	56 A G ---	---	TGTGACCATACCAAACCTATGCAATAAAGAAAAAGAAAAATCCTCACCTTAAAAAAAACAAAAA AACCTTTGCAATGCTATCATTTTTCAGGTC/TTTTGAAGTGTGAATAAAGTTCATAGCATTTTGGGA ATTATGGTTGAATAAAATACAAAATGTGTGATCTCCTGAGACACATTTATAACATTCTGGTATG T/A/T]ATTGTGAGTGGTCTCTAGTGGCCAAT
STS- R37410c	201 A T ---	---	TGTGACCATACCAAACCTATGCAATAAAGAAAAAGAAAAATCCTCACCTTAAAAAAAACAAAAA AACCTTTGCAATGCTATCATTTTTCAGGTC/TTTTGAAGTGTGAATAAAGTTCATAGCATTTTGGGA ATTAT[G/T]GTTTGAATAAAATACAAAATGTGTGATCTCCTGAGACACATTTATAAACATTCTGGT ATGTATATTGTGAGTGGTCTCTAGTGGCCAAT
STS- R37410b	139 G T ---	---	TGTGACCATACCAAACCTATGCAATAAAGAAAAAGAAAAATCCTCACCTTAAAAAAAACAAAAA AAAAACCTTTGCAATGCTATCATTTTTCAGGTC/TTTTGAAGTGTGAATAAAGTTCATAGCATTTT GGAATTTATGGTTGAATAAAATACAAAATGTGTGATCTCCTGAGACACATTTATAAACATTCTGGT ATGTATATTGTGAGTGGTCTCTAGTGGCCAAT
STS- R37410a	48 C T ---	---	TATCGTGGGAAGTCCAACTCATACTTATGCTGCTTTTCTACTTGTAAATATTGGATGCTTCTTGCCA GGCTC[C/T]TAAATTGTGCTGTAACTGGGAAGAAACCTTCTACTCTCCACAAACCCCTGAA CAATCTGAAGAGATGCATAGCGGATTGGTGGCTTTTCAGCAGCTGTGGGAGGTGGGACTGAGGAGCG ACTGCTAATCAGTATGGGTTTCTCCCGGGATGGTGAATAATGTTCCGGACCTAGATA[C/G]TGACGA AGGTAGCACGACACTGTGAGTGCACTAA
UTR- 04350	125 C G ---	---	GAAATAAACATAAACTGCAAAAGCAAATCACTGTTAATAAGAAATTGTTCTTCTGT[T/C]GACAGTTG AAGTGGGTGTGAGATGGGCATAGCAATGAACAGTGGGAGCCAATGAGGTCTCAGAAATGCGGGGCAAA CTCCTCTGTGAAAATGTAT
stSG1026 6	55 T C ---	---	GTATAATTGAGCATAAGCCAAAGCCCTTTTAAATAACCAAATAGTATCATTTTATGAAATCTTTTACA AGA[T/G]AAGCACAGTAGTACAATAATTAAGCATCTCAAGTCTCCATTTAAGAGTTGACTATC
stSG1028 2	70 T G ---	---	CACTTAGATATGAGGAAAATGGTTTAAATGGACACAAAGGAGTCAGCCACGTGGAAACCAACATAG TTTCATACCACGTTGAAACCATGTGTTTATGATATGCAAAATACAGCAAAATATTTTTCACCT[C/A]TTG TCAATGCCAATGCATTGAAAGGCCAGAAAATGAGAAAAGGATAACAACACTTTTGTATAAAAAGGTA AGAATTCTGTGTG
stSG1031 0	128 C A ---	---	

stSG1033 1b	116 T C ---	---	TTTAAAGCTACATGTCTGAAAGAATGATGCTGCTGATTGAAATAAAGGAAGAAAGGATGCATTTCCGG GCTCCAACCTGTCTAGGAAGGCCTAGACCTCAAAACACCAACACCTCCAT/C/GCATTTTCCCTCTTTGG CTACTATGTCTTTTCCCTGACTTCTGCCTCTCCAGCTCTCTGGGCTGCTGCTTCCACCTGTTTCATCTGA CTTAGACCTCC
stSG1033 1a	107 A T ---	---	TTTAAAGCTACATGTCTGAAAGAATGATGCTGCTGATTGAAATAAAGGAAGAAAGGATGCATTTCCGG GCTCCAACCTGTCTAGGAAGGCCTAGACCTCAAAACACCA/CAT/CACCTCCATGCATTCCTCTTTGG CTACTATGTCTTTTCCCTGACTTCTGCCTCTCCAGCTCTCTGGGCTGCTGCTTCCACCTGTTTCATCTGA CTTAGACCTCC
stSG1243 b	225 G A ---	---	ATTGGCAAATGGGAAAATGACACCAATCATTTGATTACAGAAAATGGTTTTATAAATCCTCCTCTTG AAATTATGTTCAGGCCCAGCATGGTAGCTTATGCCTGCAATCCCAGCACCTTCGGGAGGCCAAAGGAGA AGGATCGCTTGAGCCCAGGAGTTCGACACCAAGCTGGGCAACATAGTAAGACCCCATCTCTGTTTTT TTTAAAAAAGAAATTCGTTC[C/G/A]AAAGTATTTTCAGACCAAAAAGGAGGT
stSG1345 b	60 G A ---	---	AACTGACGTATCACAGGGGCAAGTATCTCTGTCAATAATTTGAACATAGTTTGCCTTCTTAC[G/A]CGCT TCACATTTTAGCATGGGCCAAAATTCAGGAGATGCCATGCAATGTCCATAAATGGGGCAA
stSG1345 a	54 T G ---	---	AACTGACGTATCACAGGGGCAAGTATCTCTGTCAATAATTTGAACATAGTTTGCCTT/G[C]TACGCGCT TCACATTTTAGCATGGGCCAAAATTCAGGAGATGCCATGCAATGTCCATAAATGGGGCAA
stSG1385 b	117 T G ---	---	TTAATGTATCCAGGGGGGCCAGGGATGGAGGGGAGGGTTGAGGAGCGAGGAGGCAGTTATTTT TGGGTGGGATTCACCACTTTCCCATGAAGAGGGGAGACTTGGTATTTTG[T/G]TCAATCATTAAGAA GACAAAGGGTTTGTGAACCTGACCTCGGGGGGATAGACATGGGTATGGCCTCTAAAAACATGGCC CCAGCAGCTTCAGTCCCTTCTCGTCG
stSG139	69 T C ---	---	TCGTCTCTTTCCAGTGTCTGCCAGAAGCATCCCATGATGTTGTACCGCACAGCACCTTTGTGCT T/C[G]CTTGAGCACCTTGCCACTCTGGCTGGTGTCTGCCACTGATTTGTGTACTGTCTTGCTGCC
stSG1427	103 T C ---	---	GATCTGGTTCAGACAAGGCTGATTCAGAGACTCCACGTGGTCAAGGCTCTGTTTGTCAATCCCT TGCTCCTCCACTTCAGTTGGCTTCTGTCTCCTCAIT/CJAGTCTCTCTCCATGTGGCAACAAGATGGC TACTGGTGGTCCCAGGTTACGTCTCTCAGCTTGGAATCCAGCAGCAAGAAGATGTCTCACTCCCA AAGTCCATAACTCAATCCTTGGGAAG
stSG1471	50 A G ---	---	CCCTGGAGTTTCTGAACATAGGAAGAGAATGCAAGTCATGTGTTAGGTCC[G/G]TCCCTTGATGA AATGTGGGAGAGGGGAAATAAAGTTAGGCAACATTTAGCAATCAACAGAACCCCTTCCCTATCCTACC GCA
stSG1483	44 T C ---	---	CAAAACCAAATCCTTCCACGATATATTACTATTTAGTCTAAG[T/C]TTTAAATTCAAAGTTGAGA ATGACGAATTCAGAATTTCTTCATACATAAATGCTTTCCTTAGTTCTGCAGATGGGTA
stSG1696	67 C G ---	---	CACACCCACAAGTTTCATGCTAATGCCAAGTATCAACTCTTGAGGACAAAGGCAAAACCAAGTGTGCA [C/G]AATGTGGAGGATGTCTGTTCAGCTGTAGTTACTAATGCAGGAAACCCCAATGCAAAAGAGGAA AATGCCCTGA

stSG1847 b	95 G A ---	---	TTGCAGACAACAATGGAAGCTTTAAACCCTCTTCAACACAAAATGCTACCCCTAAATGAAAGAATTT AGAGGTTAAATAAACAAGTGAGAGACC[G/A]TTACTTACATCAGTTCGGTTTATAGACATTTGAA TCATATCTGAATGACTGACTTGTTCCTCAATGTGAAACCAAAATTAATAAATACTTGATCACTGTGCT TCAACACAACACTG
stSG1847 a	49 C A ---	---	TTGCAGACAACAATGGAAGCTTTAAACCCTCTTCAACACAAAATGCTACC[C/A]CTAAAAATGAAAGA ATTTAGAGGTTAAATAAACAAGTGAGAGACCGTTTACTTACATCAGTTCGGTTTATAGACATTTGA ATCATATCTGAATGACTGACTTGTTCCTCAATGTGAAACCAAAATTAATAAATACTTGATCACTGTGC TTCAAACACAACACTG
stSG1897 a	83 A G ---	---	CTTAATGCCCTTCCTCTCCTTCTGCACAGGAGACACAGATGGGTAACATAGAGGCATGGGAAGTGG AGGAGACACAGGACT[A/G]GCCCCACCACCTTCTCCTCCCGGTCTCCCAAGATGACT
stSG2022 a	86 T C ---	---	TGCTTGAGGTTTCAAAATCTGAGATATCTATGGCAAGTTTATAAAAAAGTACATTTGATCAAGGTACAA TTTTAACATTAAATACATTCATCCATAATCTCACTATTTAACATTAAACACAGGCCTTTGTGTG TGTTATTTTCTCCCTACAATAATTTCTGACTCTGTAGGGACAGTGGGCCTCAGTTGGGGGGTTGAC T
stSG2076	104 C G ---	---	AAACGTTGTCCCAAAATTGTTTCAGTTTCACAAGTATAAATAAGACTTCTGAAAAAAAAGTTTACA ATTAGTTATAAACACACTTAAGAATATATTTTGACATT[C/G]ACATCACAGTGGGGCATTTT
stSG2108 c	71 A G ---	---	TTGAGCAACAATGATTCGCGAATTGGGAGCTCCAAACCAAAAAATGATTGAGGGGCTCCACAGAGA GAGC[A/G]TAAGGGGAAGACTTTTATAGGACAACTGTAGAAGTAAAGCAAAGCAGACGTTTGATTG GTTACAGTTACACAGTTGTCTTATTGGTCTATCTTATTGGGAAAGTCTGTAGTTATGTAATTGTAAG TTTGTGGGCTGTGCTGA
stSG2108 a	49 T C ---	---	TTGAGCAACAATGATTCGCGAATTGGGAGCTCCAAACCAAAAAATGATT[C/G]AGGGGCTCCACAG AGAGAGCATAAAGGGGAAGACTTTTATAGGACAACTGTAGAAGTAAAGCAAAGCAGACGTTTGATTG GTTACAGTTACACAGTTGTCTTATTGGTCTATCTTATTGGGAAAGTCTGTAGTTATGTAATTGTAAG TTTGTGGGCTGTGCTGA
stSG2141 b	173 A G ---	---	TTATCCAGGGGACAAAGCTGCACAAAGGAATGTTCTTCTATTATTTTAAACAAATGACTGCGTGTAC TGAATCTGACTGTGTAATAATCTCAGAAATGGCAGCACCACTGGCATGGCGATGGTGAGGTGGGT GCAGTTCCCTGTGGTCTCTATTGCTTGAAGAGAGAGAAAG[A/G]AAGTCCCTATTATATATTTAAGGC AGTTTCAGAGCACTGGCATTCCTGTTGCTCTG
stSG2141 a	113 C T ---	---	TTATCCAGGGGACAAAGCTGCACAAAGGAATGTTCTTCTATTATTTTAAACAAATGACTGCGTGTAC TGAATCTGACTGTGTAATAATCTCAGAAATGGCAGCACCACTGG[C/T]ATGGCGATGGTGAGGTG GGTGCAAGTCCCTGTGGTCTCTATTGCTTGAAGAGAGAGAAAGTCCCTATTATATATTTAAGGC AGTTTCAGAGCACTGGCATTCCTGTTGCTCTG

stSG2148	50 A G ---	---	TGGAAACAACCGGCTATAGTCTGAGTCAATTTTTAGACCGTGATTTCAGJAAAGAAACAATAAA ATGTGGATTAGAAAGGAAACATCCATTACTGTATTTTCGATACTTGTGATGTTCCACAGACGAGCTC ATCAC
stSG2175	68 C T ---	---	CTCAATGAGGACTCCATCAGCCAAAGCGGTTATATGGCAGATGAGCTGCTACAAATCTGTTGTGTGCT [C/T]GCCGGGTGACTCAGCTAATGCTACCGGGTTGGAGCGACACCGAGCCAGCCACCTTTTCCAT ACCTGGGCAGAGGAAGGAGTGAAGGACCA
stSG2189	41 C T ---	---	CAAGTGGTGAAGCTGGGATTTGAGCCTGATATTCACACTA[C/T]CTACATTCCTCCAGTATAATA GGAACATCATCGTAACCTTTGAGCACTTAGTGTCTGAGTACTTCGTATAGGTTATCTCAATCCTACTC CAGCTTTGCGAAC
stSG2200	49 T C ---	---	TGTTGATGACCATAGAGGATGCAAAGCTCCGGGCTGGTCTGTATGATG[C/T]TTTATATTTATGTAT AATGCTTACCTGATGATACCCAAACATATTACTAGCCTTATAGATGAGGATGGATGGCAGCTTGGCTG GTCAAT
stSG2243	85 G T ---	---	CATTTCTGCCCTCCTGCTTCCCAGTACTACCCCGTCCAGCAACTGCCTCTCGTATAAAATAAGTATCAA GATGGTCAGTAGAAAAG[G/T]AGAGCATCTCCTCAGCCCTGGAAGACAGTGTGGAGCTTCAGCT
stSG2257	65 A C ---	---	TCAGTGATTGTAGGAGCTGGCTAAGTCATGTCTAACTCTGTGAGGCAGGCTATCAGAAAGGCGAG[A/ C]CTGTCAGGAACTCTGCCAAGCACTGGGCTGCTCTCAGGCAGAAATTCCTCCT
stSG2306	67 A G ---	---	GTCATCAGCGTAGAGTCACTGGTATAAACAACAGTAGCTATATGATATTTGGGAAGTATTTTACA [A/G]TATGCTCCCATTTGGTTTTCAAACTGATACAACTGATACAACTGAGGTGAACACTTTCAGTGTTCACAG TTCTCCAGAGA
stSG2334	70 T G ---	---	GAAACTACCCACAGCATCATGTTAAAGAAGAGAGATGAAAGAAAAAATCCCGCAAAAAACA AAAAAT[G/T]GCAGTGGAGGGGCTGTGGAGGGGTGAATG
stSG2339	63 T C ---	---	AGAGCAGAATGGTGAATCAACAAGACCTCAAATTTGCTTGACTGCAGAAGTAACCTGCTGTCAC[T/C] GTTCTCAGAGTCACCATTACGGTGACTGTCTATTCTGGCTGTGCTTCTTCAATCA
stSG2465	76 C T ---	---	CAAGACTAAGAAAGCCGCCAGTGGTCCCAGTGGTCCCACTCAAAAAAGAGATTCTGATTCTACCTCAAAATG CAGAAACCA[C/T]TACAGATTAAAGAGAAACACACACACACACTTTGAGAAACTCGGCCCTTCTCTC ATCTTCAAAGTGTGGGTATGCA
stSG2549	140 T C ---	---	TTGCAGGCTTGATTTCCACATAACAAAGTCATGTATAGAGAAATGTGAAATGATACCTTGAAACCAA GATATATAAATATTTGAAGTCATTTATGCCCTTTGATGACTGGGTTAAATATGCAAAAGCAGCTAAAG GAATAT[T/C]TACACCCACCCACCCCTTTTAACT
stSG2577	123 T G ---	---	AATTGCCAAATGAAAAATCCCAGAGGATTTTAGACCAACTTTGCCCTGTTGCATTTCCAGTTTGGT CCCAATATAGGCCCTCTGCAAGAAGAGATCAATGCCGAACCGAACTGTGAAAGCA[T/G]GAACAATC CCGGCCAGATTAATTAT

stSG2577	121 C T ---	---	AATTGCCAAATGGAAAAATCCAGAGGATTTTAGACCAACTTTGCCCTGTTGCATTTCCAGTTTGGTCCCAATATAGGCTTCTGCAAGAAGAGATCAATGCCGAACCGAACTGTGAAAG[C/T]ATGAACAATCCGGCCAGATTAATATT
stSG2700	58 G A ---	---	ATCTCTCGACTGCTTTAGTGGGAAAGGAATCAATTTATGAACCTGTCGGGCCCC[G/A]AGTCACATCAGCGTTTGGGGAAATAAACCACTGGTCCAGAGCAGAGGAAGGCTACTTGAGCCGGACACCA
stSG2724	101 T G ---	---	AAACAAGCTTTGTCAATTTCCACTACATTTTGTGTGCTTTTATTAATATTTGCAATGCTATAATTTAATACTTATATCCAAATGCTTGACATAATCA[T/G]TTTTTAATCCTGGGTGTTGAAAGAAC
stSG2776	65 G A ---	---	GTGGCCGATCTTTACTTTTCAGAAAAAGGCGGTAAATAAAAAACCTGTAGAAAGTCTCGAATATGC[G/A]TATGGCCCTTTTGGAGTTAGGCCAGGAACITCAAAACAAGGGACACTGCTGGCCAAACCAAAAAATATCCACTAATCCCGAATATAGTAACCCGTGCTTGCCGAATG
stSG2791	109 G T ---	---	AAGGAAAGGTGGAGGGAAGAGGGAAGAAATTACAATGTTAGAAAAGAGCAACTAAAGATTATTCTATTATCTCTGAAACGGTAAACTAGCAATTTTAATAAATATT[G/T]GGGTCCACTTAAATCTATTAAGCAGAAAGTGTAAAGCTATCTCCATTAGTGAAGAGATGAAGTGACAAAAACCAATCAG
stSG2791	100 A G ---	---	AAGGAAAGGTGGAGGGAAGAGGGAAGAAATTACAATGTTAGAAAAGAGCAACTAAAGATTATTCTATTATCTCTGAAACGGTAAACTAGCAATTTTA[G]TAAATATTGGGTCCACTTAAATCTATTAAGCAGAAAGTGTAAAGCTATCTCCATTAGTGAAGAGATGAAGTGACAAAAACCAATCAG
stSG2826	85 C T ---	---	CCGCAATTTTCAACACACATTTCTATGAAAACTAAGGTGGATCATGTACAAACACAAAAACAAGCTCCCTCCCTCCAAAAACAA[C/T]GAAACAAAAATAAGAAAGAAAAACCCATGAAATGCCAGGTTTAATTTTTTTC
stSG2850	88 G A ---	---	ATGGGTGCATTGTAAAGGCAAAATTAATACATTTTTCAGGCGGGGTGGCAAAATTTAATGAGCTGATGTGTCCCAAGGGAGACGGCC[G/A]GGCTCACACATCCCATCAATACTCTCCCAT
stSG3031	71 T C ---	---	ATACTCACGGGGCTGAAGGGCAATGTGAAGAGTGAAGTGAAGTCTGCAATTTCTGTGGTGCAGGAAA[T/C]GCCCCCTTTATTTAAATGATTCCAGACATCTGGGCAGCATAGCT
stSG3058	81 G A ---	---	GTCCCAACTCTCTCTCTTAGAGAAAAAACTGTGATTACCTCAACTTGAATATGAAACTGTGATTGAAAAAGTCAAAAAC[G/A]TTGAAGAAGCATCAAAAGCCAAAAAGGCAAACTGGCTGAGGC
stSG3092	94 T G ---	---	CAGCATCTCCAGAACATTCCTAGAACTGAACCATTCCTGTCATATTGAAAAACAAGCCCAAGTTCCAAATCCAAAAATAAATAAGACGTGCT[G/G]GATAAACATCTCTTATGGTTCAGGCCCCCTACTTTAGTT
stSG3230	95 A G ---	---	AAGAAGTACTTTGGTAGCTATTTAAATAAGAGGGGGTGGGAATGAATGTCGAGATACGAGCACCTGCATCTTTAGTCAATTTGTCAAGTGAGTG[C/A/G]GTGGGGTCTAAGTGTCTTGAACCTGAAGTAG
stSG3245	160 G C ---	---	ACATCTCATACCCAGTAAGATGCAAGAAAGGAATATCTGAGAGCAAGCAGCCCTGCTCCAGGGGCCCAGGTATGTGAGAGGCCAGTGGGGTGGCCACTTGTGTTTCTACACCCCCCTGCCATCCAGTCTGGCCCCAGTACCTACCTGGGAGGTG[C/G]TGACTTGGCTTAAGTACTTCATGCTTTAT



stSG3265	42 T C ---	---	AGGTGAATGAGTACTAAATGTAGCATTTATTTATAAGGAAT/CJGCATTGTGAATAGTTTCTCAG TTTTATTATGGAAGATGATGATTTACGCCACATTCAGTGTATGTTCTAAATAACACAATCGAC AGGACTGTCTGTTACGTACAATGGAGGACAGCTTTTCAGGGCAAATGGGATTTCTTGATAATGCTAA ATCTGTCTTGTACGCTGAATTTCTTGGGCTTTATGTCGAGTGTGGTAAAAA
stSG3269 b	141 C T ---	---	TGTACTACTGTGTATCCTATCCCTTCCCTGAGCCTGGACTGCTCTTCCAAAGGAGACTAGG AGTGAAGGGAGGAGTCTCCCAAAGTTACCCCTTAAGCTTGATAATTAGCTCCATAGCCATGCTAAA GCATGA/C/TJGTAGATCCCCAAGTCCCTGACACATTTTCTTAAGAAACT
stSG3269 a	24 A G ---	---	TGTACTACTGTGTATCCTATCCJAGTTCCTTCCCTGAGCCTGGACTGCTCTTCCAAAGGAGACT AGGAGTGAAGGGAGGAGTCTCCCAAAGTTACCCCTTAAGCTTGATAATTAGCTCCATAGCCATGCT AAAGCATGACTGTAGATCCCCAAGTCCCTGACACATTTTCTTAAGAAACT
stSG3284	130 C T ---	---	TAACTCAAGAACTTTTCAGTTACAGGAAGATTTATCTAATATTAATAAGACTAAATACAAAAAGC ATAAATGTTGAAGCCATTTTAAAGTTGTTTGAATCCATATAGCACTCAGACTTCCCCA/C/TJ TCCCTAACTTTTGTAAATGCTGTAAATGGACATTTGTTGTTTGTATCTACCC
stSG3292	99 A T ---	---	GTCTCAAGTGAATCTGTAATACATTTTAAAGTCTGACTTCAATCGGTACATGAGGCTTAGACATA CACATCATTTGGACAAGTGACTTAAATATCTAA/JTJACAAATCAAAATAGCATTTTCTAACTTCAA
stSG3323	26 C A ---	---	TAAATGTCATATCTTTAGCTCTCACT/CJCCAGTGTATCCATTTCCCCAGCCGTAGAGCTTTCTG TTCTGTAGATTTGCCTGTCTGGACATTTGATATAAATGGAGTTGCTGTATCATGTTCCGACTTCTCTC ACCTAGCATGATGTTTCAAGACACATCCATGCTGTAGCATGCGTCAGTCTTCATTCCCTTTAA
stSG3369	69 C T ---	---	GATCCCCAGTATTATTTCTAAATGAACITGTTGTGGAATAAAAAATCTGAGGACCACCTCAGAG GG/C/TJATAAGGGAACCCCTCTTTGTCTTAGTTTCAAGGACTTTCT
stSG3398	125 G T ---	---	CAAGACTGTAAAGAACGTAGGCCCTTGAGAGTGAAGGAAGGATGCTCGAACTTGCCCAGGACTCAGG CTTCAGCTTCACAATCCCGAGGAAAGGAATGACATTTCCAAACTGTCACCTTTGTAGC/G/TJCTGGGT CAAAGTCTAAAGAGGACAAAATAATAGAGACT
stSG3416 a	43 A G ---	---	TCCTACTCTGTTAACTCAGTCTGGAGTAAAGGATGAATCAGC/JGJCTACTGTAGCCTGGACCTCC TGGGTTCAAGTGATCCTCCACCTCAGCCAACTGAGTAGCTGGCCTGCAGGACAAGTCAACCATGCCCTA CCTAAGTTTTGTAGAGACAG
stSG3424	173 T A ---	---	GTAAGACAAAGTTTTGCTATGTTGACCAGGCTGGTCTTGAACCTCCTTGGCTTCAAGGACCGTACCA CCTTGGCCTCCCAAAGTTGCTGATATTACAGGTGTGAGCCACTGCCCCCGCGACTTTTAAACTGAAT GTTGAAAATCATCTGCTCTTGTCTGGTAACTGA/TJAJCAAAGTGTCTTAACCTTTGTGAACCCAG TTTCCCTATCTGTAAACAAAATGGACAAACAGAACTTTTCCCTTCCCTCTC
stSG3436	88 T A ---	---	GTTTCATGTTAAAGATTAGGAAAGCTGTGGATGTGAGGGGTGAGGTGATGTGAGGCTCACAGA ATGAGTGGCAGAGAGGGCCCTT/AJGAAATAGCTTACTCTGTTTTCCTATC

stSG3463	103 C T ---	---	GATACAGAAGATAGTGTGGTATGGATGGATAGTATGAAGGACAAATAATACAAATATATTTATTG AAATAACAAAAATGCATACACAGCTCAATGGGTCAC[C/T]TGGAAACAACTTGGCTTGACTATATTA CTGA
stSG3491 b	71 G A ---	---	CAAGATACCTTCAATGCTCTAAGTAGTGCAGTGTGGGAAATATTTCTCAGCAACAGGACGATTTG AAG[G/A]GTGGAATTACTGTGCAAGGAGTACTTTACCTCCAAATAGCCTGCAATTTAGCAGTCTGA ACAACTCTCTAATCTTTTACTGGCACCTGTGGATTCTATTAACTCATTATATACTATTTCTGTGATG ACAGAAAAATAAGTTAAC
stSG3523	33 C T ---	---	TAGCATCTTACTCTAGTCTTTTGGGTTT[A/C]TGCATATATGTGTGTACAAACACACACACACC CCTAATTCCTCAAAATGCTCTGGCATAAGTTTATCTCTTACTGGTCTC
stSG3536	213 A G ---	---	AGTACAAACACAGATTTAAAGAGCTCAGCAGTATTGACAGCTGGAAATTAATGGAGACATCCACTT ACTGGAAGTAAGGAGCTGGTAGCCTACCTACACAGCTGCTACAAAAACCAAAATACAGAATGGCTTC TGTGATACTGGCCTTGTGAAACGCATCTCACCTGCTATTCTATTGTTTATATTGTTAAATGAGCTTG TGCACCATAG[G/T]CCTGCTGGGTGTTCTCAGTCTTGGCATGAAGTATG
stSG3583	112 G A ---	---	GAAAAAGCTTAACATACGATCCATGTGCAAAACCCCAACAGGATCTACGAACCTCTGGCATGATCCA CATCGCTACACATACCATGCTGGAAGTGCACATCCACACAGGCAC[G/A]TAACATACACAGTACTGT CTAGTTATCAACACCTAC
stSG3586 a	60 G C ---	---	CCTAGTAACATAGTGAGACCTCGTCTCTACTAAAAATTTAAAAATCAGGTGGTGGT[G/C]ACGG CCTGTAGTCCCTACTTGGGAGGCTGAAGTAGGAGGACTGCTTGAACCCAGGAGATGGAGGCTACAGT GAGTTATGATGGGCCATTGCACCTCCAGCTTGAGACTGTTTCAAAAA
stSG3589	101 T C ---	---	ATATAGTGTGGTAGCATATAAACTCCTTTAAAGCAATCTGGCCATATCAAAGGCAAAAAAGT GTATATACCACTGGCACAAAAACCCCAATGA[T/C]CTATTCCAAAGATGTATCCAGATGAAA GTATCCAAACAAAAAGCTATATACAC
stSG3590 a	70 A T ---	---	GAGAGATGAGCTATTTATCTTTTACTTAATGAAGATGTAAGAAATGATCTTCTGTTCTAAAAAAA AAA[A/T]TTCTCTGATGTCCTTGACCCCTGTAGGAAACACATTCAGTTTCTACACT
stSG3619	78 A C ---	---	CAGTGAGACTTCTCATTTTATAGCAAAATACATTTTGCAGCTTAAATTTCTTGAATTCATATACGCT TCTGTCAATTT[A/C]AACAACTCCAGAGAAAACTGGGCTCTATATATTTAAG
stSG3644	40 T C ---	---	ACATATGTAACCTGCCATTAGTAGCCATATTTAGGATGAGAT[C/G]GATTGAGAGGCGATGAACCAAGG ATGCGTAATAATCATTATGAAATAATAAGTTATCTGGGAAACGGCCATTGTCCAACATTTACTAA GTGCCTACTA
stSG3646 c	70 G A ---	---	CTCATAATTAGATTGAGATTGTGCATTTTGGCAAGAATATATGATGATAACAATAATATGTCTTACT GGT[G/A]JATATTAACTTTGATACCTTGGTTAAGATGGTGTCTGCTAAATTTCTCCATTGTAGAGTCATT CTTCTCTTTGTA

stSG3646 b	55 A G ---	---	CTCATAATTAGATTGAGATTGTCATTTTGGCAAGAATATATGATGATAACAATA[A/G]TATGTCIT ACTGGTGATATTAACTTTGATACCTGGTTAAGATGGTGTCTGCTAATTTCTCCATTGTAGAGTCATT CTTCTCTTTGTA
stSG3646 a	43 A T ---	---	CTCATAATTAGATTGAGATTGTCATTTTGGCAAGAATATATG[A/T]TGATAACAATAATATGTCIT ACTGGTGATATTAACTTTGATACCTGGTTAAGATGGTGTCTGCTAATTTCTCCATTGTAGAGTCATT CTTCTCTTTGTA
stSG3693 b	85 A C ---	---	ATTGTTCCCTGAACATTCCCGTGGTCTCCCTCTGAAAGCCGATGACCATCCAACCCCTGGACTCACCT GAAATATCCTACGAGGC[A/C]TCGCCCTCCGAGACTGACGATTATTAAACCCACACGGAATAAGG
stSG3693 a	30 C T ---	---	ATTGTTCCCTGAACATTCCCGTGGTCTCC[C/T]TCTGAAAGCCGATGACCATCCAACCCCTGGACTCA CCTGAAATATCCTACGAGGCATCGCCCTCCGAGACTGACGATTATTAAACCCACACGGAATAAGG
stSG3698 b	145 G A ---	---	TC TTGCCC TTGTGTACCCCTAGAGAGATGGCACCAATCCCCAGGTTGCTCTCTGACTTCCACCAT TCACTGACTTTTATTGCCAGAGGAGCTCCAGGAATCCACAGTTCTGGAAGAGAGGGGCTCTAAGTCT TTATTGGG[G/A]JAGAAATACCCACCCACCTTCCCTCACTGCAGA
stSG3698 a	51 C G ---	---	TC TTGCCC TTGTGTACCCCTAGAGAGATGGCACCAATCCCCAGGTTG[C/G]TCTCTGACTTCCA CCATTCACTGACTTTTATTGCCAGAGGAGCTCCAGGAATCCACAGTTCTGGAAGAGAGGGGCTCTA AGTCTTTATTGGGAGAAATACCCACCCACCTTCCCTCACTGCAGA
stSG3724	107 C T ---	---	ACCAGCCTCATGTGCAGAGGGTCTCCTGCTGGATCCCAACTGGAGCCATCCCTGGGCTAGACTTCT GTCTCCCTCACTTCTAAATGAGTGTCTCAGTGATGTGAAG[C/T]ACACAGGAGTCCCTCAGGGCAAAA GTGGCTATGCTGGTCT
stSG3725	104 G A ---	---	GCCAAACAAAAAGATCTTTGGAGTTTACTGACGGCAGCAGTTAATAGCACAGTCAACAGCATTTAA ATCAATATATTATTACCAGCCACAGCAACAGCCCC[G/A]JAGAGGAAATCGGGCACATAGTCATAA ATAACATCAGGGGTAAATAACGGCACATTTA
stSG3751	128 G A ---	---	CGGAAGAAAGAAACACAAATCCACAGGAACAATCTATGTTTATACCTTTTAGAAAAGATGATTTTG AGGGCTTCAGTATTTAAAGGGGAAAGCAGGCTGGAGGGGAAAGAGAGGATATGGTCCC[G/A]JT GCTGACTCATGTGTGCAAGAG
stSG3787	49 T A ---	---	TTCTGTGCAAAAGAAATCCACATCATTTGTTGGTAGCAGAGGATCTCTTA[T/A]AAAGTTCCCTAAGA CACTGAGGGCATAAACCAACAAAAATAAAATAAGGAGTGTAGGCTAAAGCAGTATCTTCCCCT
stSG3880 b	115 G C ---	---	GACAAGAGGGAAGAGATGCGCCAGAGACAGGGCTGGGCGAGCTGGGGTCCCTGAGTGCCAGGGC CACCACACGTCCTGTGGTCAAGGCCCTCCTCTGGGGAGCAGGTCTA[G/C]GGCACGGAGGATGCAG GGCTGGGAGGGGACCCACCTCGGGGACCCAAAAGGAGTCCATTCTGCCCT

stSG3880 a	36 G C ---	---	GACAAAGGGAAGAGATGCGCCAGAGACCAGGGCTG[G/C]GGCAGCTGGGGTCCCTGAGTGCCAGG CGCCACCACACGTCCTGTGGGTCAAGGCCCTCCTCTGGGAGCAGGCTAGGGACGAGGATGCAG GGCTGGGAGGGACCCACCTCGGGGACCCAAAGGAGTCCATTCTGCCCT
stSG3895	44 A G ---	---	AATCAGCCATTGTACACATTGCAGCTATGTATTGTTAGTGTGTT[G/A]GTTTTTTTCCATTAACTAA TACATGCCCTCATAGATATATTCAATTAGTGTATCACCATTGGGAACAAGATGCTGATTGCTCAACTG AAAAT
stSG3902	104 T C ---	---	TCGTGAGACTGGAGAGACCAGGTACCAAGCACCCAGCTCTGGTGGGAACCTGGCTTCCTGATAACA TCATCTATTTACCTAAATGTGAACCTGCTTTCTTTTC[T/C]TCAGCTCAATAGCTTAACATCTAATTC ATGTTGCTCCCTTTGCTGGACAAT
stSG3935	50 G A ---	---	GGGTGCTGACGGACAGGCACACCCAGCAGTTTCAACAAGCAATTTGTCC[G/A]CTAGTGTGCAGGC TCCTCCCCAGTTTCCACAGGCTGAGTACTATGGGGTCACAACCTTCCTGGACGT
stSG40	25 A G ---	---	GAGGAAGAGGTTGAAGAAGTGTGA[G/A]GAATATATTAAAGATTTCCTTGGGGAGAAATCTCGTGC CCAAACCTGGTGATGGATCCCTTACTATTAGAATAAGGAACAATAAACCCTTGTGATGATCA CCCAA
stSG4009	32 A G ---	---	GTGTGGGCTGCTGATGATGAATGGCGGCTC[G/A]TACTCTTTACGGTCTTACACTTTTATGCTCCT ATGAATCTCTGATGGCTTTAAGGGCTGAACCATATCTGAAGTTTTCACACTGCTTACA
stSG4033	123 T C ---	---	AGAAAGCCTTGGGGACAATGGCAGTGCCTTCTGAGTAAGACATGAATGCCATCTGGAGGATCCATT TGAAACTACAGTGCAGTAACCAAGAACCTAATGTTTCAAGCATAAAGGTACTTTT[C/T]GTGAAC AGGTGGGCAACAC
stSG4038 a	29 G A ---	---	GCTGAGAGCACGTGTACAGCCACGCCTG[G/A]CGCAGGCCCACTCTGTGCAATAAACATGTTCTGCC CATGTTCTCAGTCAGGAGGTTCAAGGCTCCCGGAGAGCACCTGAGGGTCCATCACT
stSG406	53 T C ---	---	ACTGTGGTTCAACAGTATTGCGTTGTCAGACTAGGAAAGCTAAACGAACAAAAT[C/G]GGTTTAGTT TTGCTGAAGACTGGCCTTATTAAATGGACAGCTTTCCTAACAGAGATTATTAACTTTTATCAGGTGTT AACATCTGTTTCAGGAACATGGCA
stSG4095 b	55 G T ---	---	ATCTGGGCTGAATTAGTCAAGCAGGTCACTACTATTGTCTGCTAGATGTATTAG[G/T]ATAAAAA GTTTGCTTCTGTAATACCTTTAAAGCTTGCTTATCTCATCTGTAAACCTATGIGCTTGAGAATCAAG CCTTTGGACTAACCCCGAGGCATTGGCCCTTCATCCTGG
stSG4095 a	27 A C ---	---	ATCTGGGCTGAATTAGTCAAGCAGGT[C/A]GATACTATTGTCTGCTAGATGTATTAGGATAAAAA GTTTGCTTCTGTAATACCTTTAAAGCTTGCTTATCTCATCTGTAAACCTATGIGCTTGAGAATCAAG CCTTTGGACTAACCCCGAGGCATTGGCCCTTCATCCTGG
stSG4120	65 G A ---	---	TGCATGTTCCACATCTTTCATAACAGCAAAATGTATAATAAACTTACGTACTTATGGATAATCAC[G/ A]CTTTTCCCTCAGAGAGCCACAGTTAAACAGCTTCCAGCACACCATTAATCCACCGAGCT

stSG4128	54 A G ---	---	CTTGGCAGATAAGGGACTCGTTTGCAGATATGACTTTCCTTTGTGTACATTTCT[A/G]TATATTATTT TACTTCTCTGAAATGCCACATAATTTGCAATAATGATTCACCTCTTAGCTCCAAAAGCAAGTCC TTTATCAAAATGCAATGTTCAGAGGG
stSG4209 b	128 G A ---	---	CACGAAACAGATGCAGCCTACACAGTGTGTAGGACCGAGGCTCACAAACATCCACATGGCACAAAGC AGGGCCGGCCACTCCAGGCAACGAAAGCCACCCCGGAACCTTGACAGGCGGCACCTCCCTC[G/A]GC AGGGGACCACCGAGGCGACAGGTGCTTTGATGCTCCGAAGAGCTGAGCTCCATTCCA
stSG4209 a	65 G A ---	---	CACGAAACAGATGCAGCCTACACAGTGTGTAGGACCGAGGCTCACAAACATCCACATGGCACAA[G /A]CAGGGCCGGCCACTCCAGGCAACGAAAGCCACCCCGGAACCTTGACAGGCGGCACCTCCCTCGGC AGGGGACCACCGAGGCGACAGGTGCTTTGATGCTCCGAAGAGCTGAGCTCCATTCCA
stSG4254 b	31 G A ---	---	CATTACCCAGAACGCCATGGAGGACCAGAGC[G/A]CCACGGCCGGGACTCCCGGATGGCTGGGGGG GCTATGGCTCTGACAAGAGGATGAGCGAGGGCGGGGGCTGCTCTCCCCCAGGGCGACAGGTGAC TGGGGGACCATTGGCCGAAGAGAGGATGACCGGTGATG
stSG4301	81 T G ---	---	TGCAACAGCTCTGAGAGGAAATCCTTGGCAGATCAAAAGAGAGGGTAGTGGCTCCACACTTCCAT TTAAGCAAAATAAAT[G/A]GCTTCTGAGTAGTGTCCAGTTTACCCCAACATTTTG
stSG4331 b	71 T G ---	---	CTCACAAGGCCAACACAGAAAAGATACAAATACATTCATCCAGTAAATTTAGTTTATGACAC AGAGT[G/J]TTTCAACAAGTTTAAAGTGTCACCTGAAGAGCATGTTAAAAAGTTTAAAGTTATCATT GGAGAGCAGATTCTTGGCCTCGCCCTTGTGATCTGTTTGAGGGGTGTC
stSG4340	76 G A ---	---	TTTTGCAACAACATGGATGGACCTGGAGGCCATTAAAGTGAAGTAATGATACAGAAAAGTCAAAAACC ACATGTTCTC[G/A]TAAAGTGGAGATAAACAATGTGTACACCTGGACGTGGAGAGCAGAA
stSG4361 b	109 A C ---	---	TTCCCAACCATTGAGTGACAGAGCTCAGTCATGCAGAACTCAGGTTTGCATGACTCAAATTAGGCAC AAGTCTTGGAATTTCCATAAGGGATAACTGCATCTTTTG[C/A]CCTTCACAAC TAGAAAACGACTC AGCGACTTTTCTGTGAGCAAAATGTCGAGG
stSG4361 a	24 T C ---	---	TTCCCAACCATTGAGTGACAGAGCT[C/C]CAGTCATGCAGAACTCAGGTTTGCATGACTCAAATTAGG CACAAGTTCTTGGAATTTCCATAAGGGATAACTGCATCTTTTGACCTTCACAAC TAGAAAACGACTC AGCGACTTTTCTGTGAGCAAAATGTCGAGG
stSG4376	73 A G ---	---	TTTCACTGCTACTGGTTTCGGTGTCTGAGTCTCAAACCTGCTTTCGAAGTCTTCTCCAAAGGGGAG AACAG[A/G]CTGGAACCTCGGCTCTGCAAGAGCCATTCTTCCAAAGCCATTCTTCTCAGCTGC
stSG4381	50 T C ---	---	GAAGGCCACAACACTCCATAGCCAGAGAATGACAACATACGATTTTCTTT[C/J]TCAGTCTTGTAGT ATCCACAGTAGTGTCTGTCCATGTACAAGTGTCTGCCAGAACACCCCATTAATTCATGCC
stSG4410	79 A G ---	---	ACCAATGGTTCTGCTATGTCATCCGATATTTTGGCCGATCTGAAATAGTCAAGGGCTTAACCAT TCAACACCCGC[A/G]TGACAACGAACCCAGTGGACTGTGAAACTCAGGCTGCAGGAGGGGTGGCTGT CAGCTGGGT

stSG443	65 C T ---	---	AGCAGATCAGTCAGCCACCTTGCTCTCTCTCTTTAGGAGAGGCTAGGAGTGAACACATCA/C/
stSG4430			TJGTATGCAATGAGAAATAACCAACTGGTAGGATGGGGAGGGAGGAGGCAATAGGCAC
a	54 A G ---	---	AAATGGAATCTATCCTGGCTGTCCTCTCAGGTC
stSG4448	99 G A ---	---	ATGCACATTAATGAATGGCCTAACTACTGGGAACCTTTAGTAGTTCTATAAGGTJA/GJATTAAACATA
			GGTAGGATCCAGTTCCTATGACAGGCTGCTGAAGGAACAGATATAGGCATCAAGAGGGCCATTTT
			CCTCCCTCCCTCTCTTCCCTTCCAGTCTTTCCATACTGTTCCCTCCCTCCCTCCCTCCCTCCCT
			CGCCTAGCCCTGCCCTCTGGGCTCACTGC/GA/JTGGGTTAGGCCCTCCCAAAAA
stSG4449	92 T C ---	---	ATTAGCCATTCACTTGCAACAATTGCTTTACTGTAACTAAGAGTACTGTACTGATGATGTTTACAAT
			TAACTTTGGACAACCTTAAACCTTA/J/CJTAGTGACATTGCTGTCTAATAATCAATACTTCAATCATA
			GGCTGAACATAATTATTAAGAGCAAAAGTTACCCCTCCC
stSG4467	42 C A ---	---	CAGACATGAGGGATGCCCTGTCTCTCTGGGACAGAGCCCTCA/CJAGATGATGCCATGTTTGTGT
			GAATGAAACTCAAACTCTTTCAGTTTTTAGAGTCAATTTCTGGTATCGAGCGACACACCGGAG
			CACACCTGCTTCCAAGGCTGCTGCCCTCTGACACAGT
stSG4475	21 A C ---	---	ACATGTCAATTCCTGACCAAGG/A/CJATTAATAAGTTATTTAGAAGAAATGAGTTGAAGTGAGCGA
			TTAAGAGACACAACTGGACTTTTGTCTTTCTTTACTGTAGCACCCAGGTTTCATG
			GTAACATTCCTGGGGTGGGGTGAGACAACA/A/GJATGAACCAATAATTAATTACAATTATACATT
stSG4477	32 A G ---	---	TCAAGGAGACTTTTAACTAGTTAATGTGAACCGCAGCCATCAATGTTTGTGAGGAAAGGGAGA
			TGAAGTCTGCTCTGGGCAACGTTTGGCCTCATTGCAGTCAGACTTGGC
			TGAACAGAGCTGGGTGGGAGCTGCAGGAGGGAGGCTGGGGGCCAGATGAGCGCGCGGGA
stSG4531	79 C T ---	---	CAGCAGGCGTG/CJ/JGCCACGTCTGCGTGGTAGAAGAGGACATAGGCTGCCCTGGACTCGATCT
stSG4550			GATTCATTGACAGGGGAGACGCTGTTGTCATCAA
b	86 G A ---	---	TGCATTAAGGAATGATACGGCATAATTTGGGGACAGAGAACAGGCTTGATGAGGACAGAGTCTATT
stSG4550			AAAAGAGACAGTGGGCAC/CJ/AJCAATTGGAGGGGAAGCGGGGAGGTTTAGAGAAC
a	85 C G ---	---	TGCATTAAGGAATGATACGGCATAATTTGGGGACAGAGAACAGGCTTGATGAGGACAGAGTCTATT
			AAAAGAGACAGTGGGCAC/CJ/GCAATTGGAGGGGAAGCGGGGAGGTTTAGAGAAC
stSG4590	47 A G ---	---	AATCAGGCACAAGCTCGGGAGAGAAAGCAACAAAGCTCTCTGAC/CJ/GJATGGAGGGAGACAC
			CATTGAAAAGGCATGTTCTCTTCATGCAAGCGAGGCTGGCTCCACAGGCAATGGTCTCCTTG
			AATCTGTATCACCCAGCGCTGGT/CJ/CAATGTACTAGTAGCTTTCCACAGGGATTTTATACTATT
stSG4623	22 T C ---	---	CTATAAGGTTTTATCATGAATAAAAAGCTCACAACCTCTTTTCAGCCATTGCAGATTCAACATTATCT
			TAATATTCCTGTTCAAGATGCTCTGGAG
stSG4843	102 A C ---	---	TAAAAAAAACACCCCCCAAAAAACACCCAGAGTTTTTGGTTTTTATGTTTTTCAGATTTAAAG
			GTATTTCTTTCTTAGCTTCTAAATTTTGAGTCAT/A/CJATCAGAAAAGTCTCCCTACTCCAAGGTGA
			GAAAGGA

stSG4850 a	38 C T ---	---	GGAATCTAACTGGGAATGCCGAGGAGGAAGGGGCTC[C/T]GTGCACCTGCAGGCCACGTCAGGAG AGCCAGCGGTGCCGTGCGGGAGGTTTCCAAGGTGCTCCGTGAAGAGCATGGCAAGTTGTCTGACAC TTGGTGGATTCTGGGTCCC
stSG4879	86 A G ---	---	AACTCTGAAGGGGTGACCTCAACCCAGCCCTTGTTCTGTGAGGTCCTGCTTTGCAGAAATGGCCTG CCCCTGGGACTGGAGCAG[A/G]CTTGGGTGAGCTCTAGGTGAGGGTGGTGGAGGGGCATAGAAAT AAACCTTCC
stSG4885	104 G A ---	---	ACTGGACTGGCTGCTGTGAGCGGCTGAGCGGGCTGGGACTGGGCTGACCACTCGCTCTTTCAG AGACTGCCCCCGGTGACCACGACTACGCTCTGCC[G/A]GTGGGAAAGCAGAGCAGGACC
stSG4896	112 C T ---	---	AAACAAATCAAAACCCCAATCCCCAGCAGTCTATGTACAGGGGCCACTCCCTGCTCTCTGCCATAGAGA GGTTGGGGGCGAGCTAGGAGTGGTGGGGCTGGGCACCTTTCT[C/T]CAGCCACAGGCCCTGAGG AATTAAATTGACTG
stSG4932	22 G A ---	---	ACAGTGCCGATGGTTACACAAT[G/A]TTGTAAATGTAATTAATCCCACTTACGAATGATTAATAATGA TAAATCTTATGTTTATTCATCACTACCAAAAGGCTGTGGTGAGGGGTGCTGGTTTCTGGTCTCT
stSG4950	24 A G ---	---	TCATGACTCCAGGAAAGTCC[T/A]GTCTTAGCTTCTCTCCCTACTTTCTCTACATGGTCAGC ACTGTAATGTAGCTAAGATATAGTAAGGCATTGTCTCCCTACCCCTACACTTCAAGG
stSG4957	136 G A ---	---	AGTACGGGCAAAACACTGGGATGGCTTCTGACAACCTAAGAGGTCCTCGAGTTATATTCGGGTT GGGAAACACTGACCCAGCCCTTATCTTCAAGGACTCTAGTCATTGGCAAGGAGGATTTCATGAGCC CC[G/A]GTGACACAGATGGGGCCCTGCTCTATATTCAAC
stSG4961	91 C T ---	---	GAAGTGCTCTGAGGAGGTGTGACTCTCCCTGGCTGACAGGGGAAGGCTTAGCAGAGCTTTGTCTTAG AGGAGTAGATGAAAAGGAAAGTA[C/T]JAGAGAGGGCATTCAGGCCAAGTCAGCAACACAGACAA
stSG4967	72 A G ---	---	ACTGGTGCCTCTCAGCAGATTCAGGGTCTGTCAGGGCTGGTTACCAAACTCAGTAGGAGTGCAA GGGCT[A/G]TACCCCGGAGCTAGACAGCCTGGGTTTGAATCTCAACTTCTCCCTTTTCTTGCTGTGC AACCTTG
stSG4997	22 T C ---	---	CAAAGGAGAGTAGGAGCCCCAA[T/C]TTTAAATGGTTTCTCTCCCTCATGCTATTTGATCCAAAAA CTATATACAAATTTGTAGCAGTCTCTGTATAGTTATTACACATGTTTAGAAGGGAGGAGGCAAGAA GGGATAGGGAGATGGTGATCCAAAT
stSG6312	37 C T ---	---	ACAGGTTCTACACTTTGAGCCTTTAGTGCAAAAAACA[C/T]TATGCCATGCGGGAAATAAAATGCTT ATCCAGTGGAGCGCTCCCTGATGCATTGAAATATTAGGATACTCAAGCAGAAGAC
stSG6345 a	107 G A ---	---	GCTCTGGTCAAGCAAAATTCACAGGACAGAAGCAAGAGCAAGTAACACACATGTATGACCCTTA CAAGTGCTTTAAGATTTAAAAAATGTGATGTTTTGTCCAC[G/A]TAGTTTCAGGCAATTAAGAATAT GCAACCCAGAGAAATTTCTGTGAAACAATTTGCTCTTTGGCCTGGTGTGGACAGAAAGGGTGGCCAA ATGGATTGAGTGATGAGCAGACATG

stSG6362	88 G C ---	---	TGTGAAATGTACACTCAGGCTAACAAATACCTATTATTCTCTGGTTAAGAGGTTTAGCAGAGC CTCCAATGAGCACTGTATGTA[G/C]AGAAAAAGGGAAGGAGGAGGAGGAGGAAACAGATCTGCACAGA AT
stSG8010	62 G T ---	---	CACATCTGTGTTCTGGAGCAAGGGAACACAGAGGCCAGGAGTTTGGGTGTGCACCTGG[G/T] GTCCTTCAACTGGGTGGAAACCAAACTGAGTCCTTGAAGTCTCGCTCCTGAGGCTGCAGAGAATAAGA TGGCTT
stSG8022	53 G A ---	---	AGCTCCTGACTCCCTGTTACGTGACGTGATGTTGGTAGCCTGAAATGGACCAC[G/A]GTGGGAGTTAT TTACACCATGGAAACTGGAAACTCTACAAATCAATGCGTTTATTCTTTATTTTCAGAGGGCAGGTT TATCAGCACACGCTGTATCTCC
stSG8032	67 G C ---	---	TGATTGTTAGGGATAAGTGGCATTGTGTTTACAAATTACTTCCAAAGAAATTCAGAAAAATTTGTGTGTT G/CJTGGGAGGCAGGGTAGCAAGATAAAAAGAGGGAGGACAGCTGGGGTTGGTAAAA
stSG8064 b	46 C A ---	---	AGCTGGCTCTTCTCTGTGCGTGTTCGGAGGCTTCACGTCCTCG[C/A]CCGTGGTCCCTGGGTGGCC TGCAGGACCAGGGGTGGAAACAATGCCAGGGAGAAATTCCTGTACATCAACACAGGGAACA
stSG8064 a	23 G C ---	---	AGCTGGCTCTTCTCTGTGCGT[G/C]TTCGGGAGGCTTCACGTCCTCGCCGCTGGTCCCTGGGTGGCC TGCAGGACCAGGGGTGGAAACAATGCCAGGGAGAAATTCCTGTACATCAACACAGGGAACA
stSG8072	59 A G ---	---	CACCATCATACATCGAGTAGGCTGAGGAGCAGGAGGGGTGGTCTTGCTGTCTTAGGG[G/A]GTGGC AGAGGCAGAAGGAAGTCCGAGTATTAGTGGCCGATGAGCTTCAAGCCTGTGCTGTTCAAAA
stSG8100	40 A G ---	---	ATACACCCACACACCCCACTCAACCTTGATCAAAATCC[A/G]AAGTGTAACATAAGTATAAGAAT ATCATGACTAGTTAAAAGATAGCAAAATACCATAAGGTACAAGTTCAAGTATTAGTATAACAAGTAT CTGAGTAACAAATGTCTTGGAAATGGG
stSG8102	138 T C ---	---	AAGGCTCCTTTGAAAGCATGGTTATTGTTCATTTAACCTGTCTCAGCTATACTGAAGTATGATT GACAAATAAACTTGCAATATTTGAGATGTACAGTGTGATGATACATGTATGTATACAATGTGAAA TGA[T/C]TGTCAATATCAATAATCAATAATTGGTATATTGGTTAGGAAATGTGATGGT
stSG8105	110 A G ---	---	CAGTGGTCTCAAACTCCAGCGTACACGAGGATGGTCTTGCTTGTTAATACACAGATGACTAGGCC CACCTGGGAGTTCCTGTTGGAGTCTAGGCCTGAGAATAT[C/A]GTTTCTAACAAAGTTCCACAGGTGA CCCTGAGGCTCTTGGACTGGGGAACATGCTTTGAG
stSG8130 b	96 T C ---	---	GTGTGTACATCATTTGGGAATGGAGGGAATAAATGACTGGATGGTGGCTGCTTTTAAAGTTTCAAATT GACATTCAGACAAGCGGTGCCTGAGCCT[C/G]TGCCCTGCTTCAGATCTTCACAGCACAGTTCC
stSG8130 a	36 C G ---	---	GTGTGTACATCATTTGGGAATGGAGGGAATAAATGAGTGA[G/C]GTGGATGGTGGCTGCTTTTAAAGTTTCA AATTGACATTCAGACAAGCGGTGCCTGAGCCTGTCCTGCTTCAGATCTTCACAGCACAGTTCC
stSG8145 b	124 T A ---	---	TTGTGGACTTCAAAATCTTCTTCAGATTTTAAATGACATTATGCATGTACATATTTTAAAAATTT AGACACATTTTAGAGAACACAATTTGTAACACAAATCTAAGAAATGAATGAGATGT[T/A]CTGAAA TCTGATTCAAAACACTTATCTTAACTGACTTCTGTCAATCTCTCTGCTCTGTGAAGG



stSG8145 a	97 C T	---	---	TTGTGGACITCAAAATCTTCCITCAGATTTTAAATGACATTATGCAATGACATATTTTAAAAATTT AGACACATTTAGAGAACACAATTGTGAA[C/T]ACAAATCTAAGAAATGAATGAGATGTTCTGAAA TCTGATTCAACACATTATCTTAACTGACTCTGTCAATCTCTGTCTGTGAAGG
stSG8150	36 A G	---	---	ATTGTTCTTGCAATTGCTTGGATTTTTCAGAAATAGT[A/G]ATAAATAATAACGGGAATCCTAGGCAT TCGTGTTTCTCTATGTTTAAACAGGATTTTCTCTAATGTTTCGCTATTAAATACCATGCAGGAAAT GGGAAAT
stSG8340	30 C T	---	---	AGAGGATTATGGAGAGAGCTGGGCAGGATC[T]CAACATTATGACCCTGAACCTCCAGAACTGGAT TCACTAGAGGAGAGAGAGAAAAACGCTCATCAAAA
stSG8466	111 G A	---	---	TGTGTATTGGGTGACTGTAGCCTAAGGATAAATGAAATAAATGACAGCAATGTTATAAGCAGTGGGA GGAGTGAACCTGGGAATACTTGGTTACAAGGTATTTGCACTACCT[G/A]JTGAAAGCAGCACAGCATTTAT TTGAAAG
ESTD-ACE	-- -- --	---	---	GATCAAGCAGTGCACACGGGTACGATGGACCAGCTCTCCACAGTGCACCATGAGATGGGCCATATA CAGTACTACCTGCAGTACAAGGATCTGCCCGTCTCCCTCGTGGGGGCCAACCCCGCTTCCATGA GGCCATTGGGACGTGCTGGCGTCTCGGTCTCCACTCTGAACATCTGCACAAAATCGGCCTGC
ESTD-ADA	-- -- --	---	---	ACCATCTTACTATGGCAGGTAAGTCCATACAGAAGAGCCCTCTCTCCCTGGGATTTAGTGGGGTC CCAGCTCCACCCAGAGGCCCTGGGAAATCCAGGGTCACTGTCTCTCTCTCCCTGCTCCCTGTGGGAAT CAAGCCAGCTCCAGGCCAGAAAGTGGGACTGTGAGGACATGGAGGCCTCGGCACTGAGCTGCAGACCCC GCAGACCAACTCCTGAGCTTTCTGGGCTCTGAGCTTGTCTCT
ESTD-AK- 168	-- -- --	---	---	GGGAGTGACAGCTAGAGCACCAAGGGGGCTCTACAGCTGTGTCTCTCATGGAGGACAGGCTTCTGCTC ATTCTGG
ESTD-ALB	-- -- --	---	---	AATCCAGCACCTTTAGGAGGCTAGGCAGGCATATCACCAGAGTCAAGGATTTGAGACCAGTCTGA CCAAATGTTGAAACCCCATCTCTACTAAAAATACAAAATAGCAGGCAATGGTGGTGCATGCCTGT AATCCAGGAGGCTGAGGCAGGAGAAATCGCTTGAACCTGGGAGGCGAAGTTGTTGGTGAGCCGAGAT GGCACCATTGCACTCCAGCTGGGCAACAAGAGTAAACTCTGTCTTC
ESTD- ANT1	-- -- --	---	---	TCTCTGTCTATTCTCTACTCCATTAGTTCAAGGTCAAGTGAAGAACTGGGGCAATTAACCAAGTAATCA TGGACTGCCCCAACTCGAAACAAGAGGGCGCAGTGGAGCAGGAGTATTATGCTACGCGGTACCTT TTTTATGAGGACCGAACTGAGGCTGAGCTCAGATGATCCTGT
ESTD- APOA2	-- -- --	---	---	CCAGGTGTTGTGGCACGTGCCTGTATCCAGCTACTCGGAGACTGAGGCATGAGAATCTTTTGAAC CGGGAGCGGAGGTTGCAGTGAGCTGACATCGCGCCACTGCACCTCCAGCCTAGGTGACAGAGCAAG ACTCC
ESTD- APSB	-- -- --	---	---	GGAAAGAAATGGAGCCTGTGGGAAGGAGCGCTCCAGGGGTGGGCTTTGTGGCAAGCCCCCTTGTCTGA AGCAGAAAGGGCGTGAAGAACCGGAGCTCATCCACATCTCTGACTGGCTGCCAACACTCATGAAGCT GGCCAGGGGACACACCAATGGACAAAGCCTCTGGATGGCTTCGACGTGTGGAAACCATCATGTGAA GGAAAGCCCATCCCCAGAAATTGAGCTGCTGCATAATATTGACCCCAAC

ESTD- AT3a	--	--	---	---	AGACCTCAGTTTCTCTCTGTAAAGGGAAGTTTGTCTTGATCTCCATGGGCCAGCCAGCACTG GTGCCCTGTGAGTCTGTATCAGGTAGAGGAGATGGACCAGGTGGAGAGGAATTTGAAAGGGCATTTG GAATTCAGAGCAAGAGACAGATATTAAGAGCTGGGAAATGTGG
ESTD- B3AR	--	--	---	---	GGCTGCCAGGGGTTCCGTGGAGGGCCCTAGCCGGGGCCCTGCTGGGGCTGGGGTCTGGCCACC GTGGAGGCAACCTGCTGTCTATCGTGGCCATCGCCCGGACTCCGAGACTCCAGACCATGACCAACGT GTTCTGACTTCGCTGGCCGACGCCGACCTGGTGATGGGACTCTCTGTGTGTCGCCGCCGGGCCACCTTT GGCC
ESTD- BA511	--	--	---	---	GGGCAACATAGTGAAACCCCATCTCTACAAAAAATACAAAAATTAGCCAGGTGTGGTAGCAAGTGC CTGTAGTCCAGCTACTTGGAGGCTGAAGTGGGAGGATCCCTTAAGCCTGGGAGGTGGAGGCTGCAG TGAGCCAAAGATGGTGCCACTGCA
ESTD- BCL2	--	--	---	---	AGCTGGATTATAACTCTCTTCTCTGGGGCCGTGGGTGGGAGCTGGGGCGAGAGGTGCCGTT GGCCCCGTTGCTTTTCTCTGGGAAGGATGGCGCAGCTGGGAGAACAGGGTACGACAACCCGGGAG ATAGTGATGAAGTACATCCATTATAAGCTGTCCGAGAGGGGCTACGAGTGGGATGCGGGGAGATGTGG GGCGCGCCCCGGGGGGGGCCCCGCCACCCGGGCATCTTCTCTCTCCCA
ESTD-BCR	--	--	---	---	CAGTGGCTGAGTGGACGATGACATTCAGAAACCCATAGAGCCCCGGAGACTCATCTGCGCAAGA GACCAAGAGGTCAGCTTCTGTTGCCGGGAAAGGGAGGCGAGGTGACAAGCTAACTCTGCTTCAAA ATCAACCATCCGGTGGACACTGTGTGGCTGCCATCTGCCTGGCACA
ESTD- BRCA1a	--	--	---	---	AAGAAGAGAAACTAGAAACAGTTAAAGTGTCTAATAATGCTGAAGACCCCAAGATCTCATGTTAA GTGGAGAAAGGTTTTGCAAACTGAAAGATCTGTAGAGAGTAGCAGTATTTCACTGGTACCTGGTAC TGATTATGGCACTCAGGAAAGTATCTCGTTACTTGAAGTTAGCACTCTAGGGAAGGCAAAAACAGAA CCAAATAAAT
ESTD- BRCA1b	--	--	---	---	ACTAAATGTAAGAAAAATCTGCTAGAGGAAACCTTTAGGAACATTCAATGTCACTGAAAGAGAA ATGGGAAATGAGAACATTCCAAGTACAGTGAGCACAATTAGCCGTAATAACATTAGAGAAAAATGTT TTTAAAGAAGCCAGCTCAAGCAATATTAATGAAGTAGGTTCCAGTACTAATGAAGTGGGCTCCAGTA TTAATGAAA
ESTD- BRCA1c	--	--	---	---	ATGCATCTCAGGTTTGTCTGAGACACCTGATGACCTGTAGATGATGGTGAATAAAGGAAGATAC TAGTTTTGCTGAAATGACATTAAAGAAAGTTCTGCTGTTTTTAGCAAAAGCGTCCAGAAAGGAGAG CTTAGCAGGAGTCTTAGCCCTTTACCCCATACACATTTGGCTCAGGGTTACCGAAGAGGGGCCAAGA AATTAGAGTCTCAGAAAGAGAACTTATCTAGTGAGGATGAAGAGCTTCCC
ESTD-C1R	--	--	---	---	ACACAGGTGCTGGCACTGGGGCTGGGGATCCTCTCCCTAATTTGCTCCGGGAAGCACATTCATCAA CCCAGTCAGTTTGGGGACAGCCATGCACCTGAGCCTCTGTAGCCTTTCAACCATGCATTCATCTAA GCTCTGCAAAAT

ESTD-C7	--	--	--	---	---	ATATCGTGGCCTTAGTTACCTAGAGCTGGACAATCCTGCTGGA
ESTD-CB22	--	--	---	---	---	GGCAAGTTTTATTGATAGAGAGGAATCAAAATATATGGCAATGAGGAGACATCACCTGGAATGTTAG GCAGTGCCTAACTGGGGATGGACAGACAATGGCAGTGCCAAACCATAGGGCGGATACAAAAGAC AGGCAAGGAAGGGTAGAACCATCAAAGAGGAATAGGCTGGTGACCCCAAGCAAGGAGGACCTAG TAACATAATTGTGCTTCATTATGTGCTTTCCCGGCTTCTCTCACACAC
ESTD-CB23	--	--	---	---	---	TAGAACCATCAAAGAGGAATAGGCTGGTGACCCCAAGCAAGGAGGACCTAGTAACATAATTGTGC TTCATTATGGTCTTTCCCGGCTTCTCTCACACATACAGAGGCCCTACAGGACCAGACAGCT CTCAGAGCAACCCTAGCCCCATTACCTCTTCCCTTCCAGAGGACCTGAAAAACGTGTTCCGACCCGA GGTGGCTGTGTTGAGCCATCAGAAAGCAGAGATCTCCACACCCCAAAA
ESTD-CB24	--	--	---	---	---	ACCAGGACCAGACAGCTCTCAGAGCAACCTAGCCCCATTACCTCTTCCCTTCCAGAGGACCTGAA AAACGTGTTCCACCCGAGGTCGTGTTTGAGCCATCAGAAGCAGAGATCTCCACACCCCAAAAG GCCACACTGGTATGCTGGCCACAGGCTTCTACCCCGACACGTTGAGCTGAGCTGGTGGTGAATGG GAAGGAGGTGCACAGTGGGTCAGCACAGACCCGAGCCCCCTCAAGGAG
ESTD-CB25	--	--	---	---	---	GTTTTCTTCAGACTGTGGCTCACCTCCGGTAAGTGAGTCTCTCTCTTCTCTCTATCTTTCGCCGTG TCTGCTCTGAACCCAGGGCATGGAGATCCACGGACAGGGGGCTGAGGGGCCAGAGCCACCTG TGCACAGGTACCTACATGCTCTGTTCTGTCAACAGAGTCTTACCAGCAAGGGTCTCTGCTGCCACC ATCCTCTATGAGATCTTGCTAGGGAAGGCCACCTTGATGCCGTG
ESTD-CB27	--	--	---	---	---	TTTTCTGTTTCCCTGAAGATTGAGCTCCCAACCCCAAGTACGAAATAGGCTAAACCAATAAAAAAT TGTGTTGGGCTGGTTGCATTTTCAGGAGTGTCTGTGGAGTTCTGCTCATCACTGACCTATCTTCTGA TTAGGGAAGCAGCATTCCTTGGACATCTGAAGTGACAGCCCTCTTCTCTCCACCCCAATGCTGCT TTCTCTGTTTCATCTGATGGAAGTCTCTCAACACCATTTCCATACC
ESTD-COL2A1c	--	--	---	---	---	AGAATGTATATAGTCTCAAACCTGGCCATCTCCATTTTCAGTCCAAAAGTTATACAGCTAGACAACA GTGGTGACATACGTTGCTATTTATGCTCTCTTCTCTGTCACTTTCAGGGTGTTCAGGTGGAAGGT GAACAGGTCCCGCTGGTCTCCAGGCTCCAGGTAAGTCAACTCAAGCATATACATACTGCCTTTG GTCAGCCTATTGAGCTGTAATCACCATACCGTACCT
ESTD-COL2A1d	--	--	---	---	---	TGAGAGAACACCTAGTCTCCATCTCTCTCAATGGCAAGAAAGTTAAGTGACCTATCTAGGGC AATAGACTGAGTTTGTCTGGACCTGGAACACTGGACTTCTTCTACTGCAGCAGACAAGACTTACCC AAGAGAGATTAAATGGCAAGATATACAATACAATTTTATTTGACCAACACATATCATGGAACAGC ATT
ESTD-CPT2	--	--	---	---	---	GCCGCAATGCCCGGGAGTTTCTCCAATGTGTGGAGAGGCCCTTAGAAGACATGTTTGTATGCCCTTAGAA GGCAATCCATCAAAAAGTTAACTTCTGGCGAGATGAAAAGCTACCATCTTCTCATCATGAAAC TGGGAGGCCGGGCATAGTCTCATGCCTGTAATCCAGCATTTTGAGAGGCTGAGGCGGTGGATCAG TTGAGGTCAGGAGTTTGAGACCAACCTGGCCCAACAT

ESTD- CTLA-4	--	--	---	---	ATGGCTGCCTTGGATTTCAGCGGCACAGGCTCAGCTGAACCTGGCTACCAAGGACCTGGCCCTGCAC TCTCCTGTTTTTCTCTTCATCCCTGTCTTCTGCAAGCAATGCACGTGGCCAGCCTGCTGTGGT ACTGGCAGCAGCGGAGGCATGCCAGCTTTGTGTGTGAGTATGCATCTCCAGGCAAGCCAC
ESTD- CYP2D6	--	--	---	---	CAGGCGAGGTGGTGCAGGTGGTCAACCATCCCGGCAGAGAACAGGTCAGCCACCACCTATGCACAGGT TCTCATCTTGAAGCTGCTCTCAGGGTTCCCTTGGCCTGAGCAGGGCCGAGAGCATACTCGG
ESTD- D11S1873	--	--	---	---	AAAAAACATTTTAAACACCTTTTCAATCATATACACCATAAATTTCCATTTTTCACATAAGTCAGTT TGAGCTGAGTTTCCAAATTAATGCAATCTAAATGTCAATAACTGATTAAATGCAAGTTCAACAGACA ACTTTCCCAAGCATCTACGATCAGAAAGGTCAAAATATTACATATCTGGATTAAATTTATGCCCATAT CTGCATGTC
ESTD- D17S33	--	--	---	---	CATCCCAAGCCCATCCTCTTAGCCACTGGCATTTTTTGGCGCCTCTGACAGATACACTCAGGGCCGT CATGCTGCACACATCCAGGGGGCCCTACCCCTTTGTAGTCCATGGGAAGGCTCCTCTGGGGCGGTG GGTTGTGTGGCTATGTGTGCTTTGTGTAGACGGGGCTTTGGTTTCAGTTGCACCTATTGCGTTATT GCAGATTGCTTTGTCTTCCACCTGAGCGAGCCTC
ESTD- D18S8	--	--	---	---	TTTGAGACCACCTGGCCAAACATGGCGAAATCACATCTACCAAAATACAAAATAGCTGGGTGT GGTGTACATGCCTATCGTAATCCAGCTACATCGGGAGGCTGAGCAGGAGAAATGCTTGAACCCA GGAGGCAGAGCTTGCAGTGAGCCAAAGATCACACCCTGCACCTACAGCCTGGGTGACACAGTGGAGA CTCTGTCTCAA
ESTD- D3S11	--	--	---	---	AACTGATTAGAACCTGAAAATACATAATTTATCTGAAAAAGTCGAGTTATTGGCTCATCACATTGG AATTTTGCATCATTAATAAAATCCAAATAAAGTACACTGTATAAAGAAATTAACAGAAATATCATTTG TTATCAAACCTATTATCAGTTATTTTATTGGTAAGCCCATACTAAATCTAAAGCATGTTTCTGAAAG TTTA
ESTD- D3S12	--	--	---	---	AGGTTCCACATTATTGCTGATTTTGTGCTGATGTTTCCAGGAGCCTTGATGTCATCTGTATCTCCTCAG GTATCCACCTTGAGACGTACTTTTCAAAAACCTCTACAGCCGTTGTTGTTATTAAATCAAGGTTGA ACATAAAGTA
ESTD- D3S2	--	--	---	---	GATCATGTGGCCCAAGTGGCAGAGCTACTTATACCATGACCCAGACCTGCTAGCAGAACATTCCTGC TGAGTCTTATTCAAACTGACAGCCATTTATGCCACCTGAAATATGGTCAGGTTACAGCTGATTCC AGAAATGAAACATACTGCTCCTAGAGCCAGAGTACATGATGTTCTGTTCCGGTCTTCACGATGG CAGGATGAAATATAATAATCTGTCCCTTTATTGGGAAGGATGCCGGTATGT
ESTD- D4S338	--	--	---	---	TTTTCTGTTACCTTTTCAGATCCTTCAGAGGAATCCCTATATATGGCAGGTATATGAAATGATTTT CTTAACAATAAACTGAAAGTCCAAAATTTACTCCTTGATCCATGGACTGCAGAAATAATGTTATTT TAGCTGTGAGAAAACAATACTAATCTTGATATGTTTCATCAGAGCCCTTGGTGACCAAGGTGATT GCCAATAAGCAGTAATATTTTGAAGGAATCTTTTTCATGCAGTAG
ESTD- D4S95	--	--	---	---	CTTTTCATGCACGATAGGCTTTCTCTACTAATCACAGAAATTTTGAGAAAGAGCAAAACAACTTCAAGG ATAATGGGCAATCACTTCTTTCTCTTTTCTTTAGAGTCTACCGG

ESTD- D7S399	--	--	--	---	---	TGAATCTTAATTGCTATCTCTACAAATGTATAAATCCTGAATCTGACATCTAGCCACCTCCATAGAT AACTGCTAGAGACCCAGTCTCTACATCATCTTTTACAAACATTTTCATCCATGAGACTCCATAGTAG AATATTTGAAGAAACAAACATGACAAACATTTTC
ESTD-DM	--	--	--	---	---	GTGGGACACCGAGGGCTCCAGGCTGGGCGCTTGACGCTGGCTCAAGCAGCTGCTCGGCGCTCCACT TCCATGGGTGGGGCTGGACCTCACTGTCCCTGGGAGAGGAGGAGTGGGAGGGAGACA GAATGCTGATTATCTGGTGAGAACCAAGAACTTCTGGCCTGTGGTAGGGGAGCTGCTTCCAAAGACC TCCTGATTGAGGAAGGGAGCAGCAGAGCGAAGAGAACAGAGT
ESTD- DRD1	--	--	--	---	---	TCCCCAGCCCTATCGGTATATTGGACTATGACACTGACGTCTCTCTGGAGAAGATCCAAACCCATCAC ACAAACGGTCAGCACCCAACTGAACCTGCAGATGAATCCTGCCACACATGCTCATCCCCAAAAGCT AGAGGAGATTGCTCTGGGCTCGCTATTAGAAACTAAGGTAC
ESTD- DRD2	--	--	--	---	---	TCTGCCTTTGGTGACGAGGCTGCCCGCGAGCCAGGAGCTGGAGATGGAGATGCTCTCCAGAACCA GCCACCCGAGAGGACCCGGTACAGCCCCATCCACCCAGCCACCACTGACTCTCCCCGACCCCG TCCCACCAACGGTCTCCACAGCACTCCGACAGCCCCGCCAAACAGAGAAATGGGCATGCCAAAG ACCAACCCCAAGATTGCCAAGATCTTTGAGATCCAGACCATGCCCAATG
ESTD- DRD3	--	--	--	---	---	AAGACGATGGCCAGGATGAGCGCGCAGTAGGAGAGGCGCATAGTAGGCATGTGGCGGGCGCTGGCTGG CACCTGTGGAGTTCTCTGCCCCACAGGTGTAGTTCAAGTGGCCACTCAGCTGGCTCAGAGATGCCATA GCCAGAGGGAGGTGCGTGATGCCAAGGGGCTTCTGTGAGGAGA
ESTD- ERB82	--	--	--	---	---	TCTTTAGGATCCGCATCTCGGCTGGTTGGGCATCGCTCCGCTAGGTGTACGGGCTCCACAGCTGG GGTAGGGGGTGGTGGTCAAGTCCGGGGGGCGGTGCAGACCCACGGGGCTGGGAGGACTTCACCC CGCCTCACCTCCGTTCTCGCAGCAGTCTCCGCATCGTGACT
ESTD- ETS2	--	--	--	---	---	ACTCACAGTGCTTTTAAAGTAAATGGTCGAGAAAGAGGCCACCAAGGAGCCGCTCTGGCGCCTGGCA GTCCGTGGGACGGATGGTTCTGGCTGTTGAGATTCTCAAAGGAGCGAGCATGTCTGTGGACACACAC AGACTATTTTAGATTTTCTTTGCTTTTGCAACCAAGGAACAGCAAATGCAAAAACCTTTTGAGAGG GTAGGAGGTGGGAAGGAACAACCATGTCTTTTTCAGAAGTTAGTTTG
ESTD-F2	--	--	--	---	---	GATAAGTACACTGAGGCCCCAGGAGTTATTGCCTAGTAGCCCAACTGTGCATGCACGCTTAACCTCT GCACCAAATGGCCTCCAAAGCCCCGTAGGGGAACTAGGGGGATCTAGGGGATGGGTGAGGAATGGCCC AGCCAGTCCCGCGGTGCTGGGTCCCAACAGAGGAGGGCCGTTGGAGGAGGAGACAGGAGATGGGC TGGATGAG
ESTD-F9	--	--	--	---	---	AGATCCTGATGATTTTTTCTATTTTTTCTAAATGTTTTTACAGTTTGAAGTTTTAGATTTATGCCCCA TGCTCCATTTTGAGTTAATATTGTGTAAGTATGATGTTTAAAGTCAAACTTCATTTTTTTTCCATA GGTATGTCCAATTTATCCAGCACAAATTTGTTAAACAAAAAAC

ESTD-GGDH	--	--	---	---	CGCAGACCGGTACGTGTGGGTCGGGAGTGTGGAGGAAGGAGGAACTGGGGGTTTAGGGAACCTTCGGGGTACATTCGGGTTCTGTGCTTGCAGAGAAAGCGGGGAGAACACAGAGCCAACTGGCTAA GTGTAAAGGACCTCTGTGCGACCGTGTCTGTCTGCTGCCCTGTTCAGCTGTCTGTCTGCCGACGTGCA CTCTGTCCCGGAAATTCGAGAGCT
ESTD-GCK	--	--	---	---	GTTTATGCATGGCAGCTCTAATGACAGGATGGTACGCCCTGCTGAGGCCACTCTCTGGTCCACCATGAC AACACAGGCCCTCTCAGGAACACAGTAAGCCCTGGCAGGAGAAATCCCCACCCACACCTGGCTGG AGCAGGAAATGCCAGCGCGCTGAGCCCCAGGGAAGCAGGCTAGGATGTGAGAGACACAGTCACC TGCAGCTAATTACTCAAAGCTGTCCCCAGGTACAG
ESTD-GNAT2	--	--	---	---	GACCTGAGTACCTCCCTAGTGAGCAAGATGTCTCCGATCCAGGTCAAAACCCACAGGCATCATTTG AAACCAAGTTTTCCGTCAAAGACTTGAATTTCAAGTAAGTGCATGGTTCCCTAGG
ESTD-GPPK2L	--	--	---	---	AGTCTTCATCTGCGGTGTCCAGGTAGATCCCTTTACCGCCGAGAACTGCTCGATATC
ESTD-HRAS	--	--	---	---	CTGGGCTCGCCCGCAGCAGCTGCTGGCACCTGGACGGCGCGCCAGGCTCACTCTATAGTGGGTGCTG TATTCGTCCACAAAATGCATCTGGATCAGCT
ESTD-HSD3B1	--	--	---	---	TTGGAAGTTCTCCACTGTTAACCCAGTCTATGTTGGCAATGTGGCTGGGCCACATTTCTGGCCTTG AGGGCCCTGCAGGACCCCAAGAGGCCCAAGCATCCGAGGACAGTTCTACTATATCTCAGATGACA CGCCTCACCAAGCTATGATAACCTTAATTACACCCTGAGCAAGAGTTCCGGCTCCGGCTTGATTCC AGATGGAGCTTTCCCTTATCCCTGATGATTGGATTGGCTTCCCTGCTG
ESTD-HT2	--	--	---	---	GGGCTAAAATTTCCGAGCACTTTGCATAGACTGTTTTATTGACTTGACAGGATTGCTAGAGATAGG CAGGAGAGGAAGATGTGTACAGTTTGCAGAGAGAAATAAAAGGATAACCTGGGTTTTCTGTGC TTTGCTTCTTCACATCCCTGGGAGTTAATAGCTGCAATTTTCAAAGAACGGTATACAGGGACAGCA AAGCGCAGTCGTGAAGTTTCAAACAAGACACACCTT
ESTD-HT4	--	--	---	---	ACCAACGAGCGCGATACAGACACTCTTAAGTTTTGCCCTAAGGCTCATCAAATCATTAGGCATTTT CTGATAAACTAGGTTCTTGGGTGCTTCTATCGGCAAGAAATGCGTACTATTATTTGAATAGTAGAGTAA ACCACAGCCCCAAGAGTCACTGAGACTGGCAGCTTCTGCAGCAGGGGTGAACCCCCGTAGCCTAAA TGACAGCCGAAGAGGGCCGAAGACATGCAGATGTCG
ESTD-HT5	--	--	---	---	AACACAAAGCCCCAGGAGAAATTGAACCTCGCGACCCCTGGTTTACAAGACCAGTGTCTAACCCCT GAGCTATGAGCCCTCGTCTGTGTTGGTTTTCTCTCTTCTCATCTATAGATTGATTATGCTCCTA GCATTCCGGCTACCGAATAGGATGTTAGCTTGAGTAAATTCAGGATATTCCTACAAAAATGAAA ACATTTTCGTGCTCTGTAATCCCTCGAAAAGTTCT
ESTD-GERP1	--	--	---	---	ACCCAGTGGAGCCCCGCTCATTTGCACGGTCTTGGCAGGAGGTGCCCTGGGAGGAAGGAAGATGTTT CAGGGCACATAGCTTAGTGGAGACTC

ESTD- IGHV4-6	--	--	--	---	---	TTTACTATTCAATGGATACAGAAATTGTGGGAGTCACCTATATTCCTATGAACAAAAATTCAGATTT CAGTITTAAGTAATGTTGCCTACATTGTGTGAGTGACGGGAGTGGTGATCCGAGAGTGTGGTGGG TGCACGGACATAATGATTTCAGAAAGCAATATGGAAGATGAGTATCTATGATACGAACTGAAAGT ATGTAATACTTCACAAAATACTAATAACGGAGTTGAATATAAAACCCA
ESTD-IL1A	--	--	--	---	---	CAAAGTAAGCACCCCAATAAATGTTAGCTATTACTATCATTAATTATTATTATTATTTATTTTGTG AGATGGAGTCTGGCTCTGTACCCAGGCTGGAGTGAGTGGCACAATCTCGGCTCACTGCAAGCTCTG CCCTCTGGGTTTCATGCCATTCTCTGCTCAGCTCAGCCCTCCGAGTAGCTGGGAATACAGGCCACCCGCCACT GTTCCCGGCTAAATTTTGTATTTTGTAGTAGACGGAGTTCACCGT
ESTD-IL1B	--	--	--	---	---	CCACTTACAGATGGATAAATGGGTACAATGAAGGGCCAATAGCCCTCCCTGCTGTATTGAGGGTGT GGGTCTACCTTGGGTGCTGTCTGCTCCTCAGGAGCTCTGTCAATTGCAGG
ESTD- KRT10	--	--	--	---	---	CCAAAGTTAAATAGTATTGGAGTTATCTGAGAAATTTCCATGTCAGTGTACCTTTTGGCAATATT AAAGGAAGAAAATGCATTTAAAGTAACCTGCTAAGGTTTTTCCATTAAACCACCTATTACTTCTAAG AGAACTGTACATGACAAAATATTGCCATTACATGAGATCAACTATGAGTCTGCTTTTAAATAGTCTC TGCCAGATACATCTCCCTATATAAGTTATAACAGTATTGATA
ESTD- KRT8	--	--	--	---	---	ACCTCACCCCTCCCTTAGCCCGTGGGAGCAGGAAATCTCTCCAAATCCATGAATACACATCGG ATTGGACACCTTGAGAGTCTTAACAGCAGGCGCTGACATGAGACCTCAGACAGAACTTCTAGAGTT TGCTAGAGGTCAAGGTCAGACTAAAGAGGGGCCAGAAATGTTAAGTACAAAAGTGAGGCCCATAG GCTGCCTATCTCTCCGCTCAGGTTTACCAGTCAACATTGACACA
ESTD- LF79	--	--	--	---	---	GGGTGATTTTGAGGCTCAGTTAATATTCAAAATTTAACCCTAGCAAAACTGCATTGGTATTAGA AAAAATAAAATTTCCAATATGTAGTGTGTATACCTGCCTCTGCCATGCAGCATCATAGCCTGT GGGAACCGAGGGGCTCCCTTACCACCCAGA
ESTD- LMP2	--	--	--	---	---	TACACACTTTCCTTACCCATTCACTGAAACGACTCGCAAACTGGAGCCTTGTAGGAATGGAGTTGA CCTTCCCAAAAGCCACTATGATAAGCTATTGGTG
ESTD-LPL	--	--	--	---	---	TGTCAGTGTCCCTAGGGGCACCTCACCACTCCAGCTTCTTCAGCTCTGGCCTGTCTGCTGCTGCA AGGGTTTGTCTAATCTCAATCAATGCTCTTCATCTTTAGCAGCTGTGGGGTTTGTGTGTTTC TTCTGTTTTGCTTAGTATCTGACTACTTTTAAATATAAAAGAGATGTATCTAAACAAAAATAGAG ATTGTTATCAGAAGTTCACAACATTTATTAATAATTTTTCACCTG
ESTD-MCC	--	--	--	---	---	TTGTCAGGAGTGTGCTGATGCTGCCTCCCAAGCTCTGTCCCTAGCCGAACCTCAGGACAACGTGCAG
ESTD- METH	--	--	--	---	---	CATCCATGTAGGAGAGCCTTAGTCAAGTGAATGCTGAGGAAGCAGTAAACAGCATGCATCCCCGAA TCTCAGGAAGTCTCTGCTTTCCAAAGGTTTGGTCTAAGTTGCTGATTACCCGGATTTTCTGACGATC TTTCAACTGCTAGAGCATCTGGTTCTGTTTATGACATGG
ESTD-NF1	--	--	--	---	---	ATTATCCAGATGAATTTACAAAATATACCAGATCCACAGACTGATATGGCTGGT

ESTD- NFKB1	--	--	---	---	AAATGAGCTTGATATTTGTACAAAAAAGTTTATTTTCTAAAAAAGAAAAAAGAGAAA AAATTTAAAGGGTGACTTATATCCACACTGCACACTGCCTAGCCCAAAAGCTTATTGTGGTAGG ATCAGCCCTCATTTTGTGCTTTTGTGAACCTTTTGTAGGGACGAGAAAGATCATTTGAAATTTCTGAG AAACTTCTTTTAAACCTCACCTTTGTGGGTTTTTGGAGAAGGTTATCA
ESTD- NPPA	--	--	---	---	TGTCCCTAGGCCCCAGCCCTGCTTGTCTCCCTCCCTGGCTGTATCTTCAGTACTGCAAAAGAGAACACAGAC AT
ESTD- NRAMP	--	--	---	---	GGAGGAGAGGTGGGAGGGGTCTGTCTGCTCCAGGTCCACACAGAACAGAGAGGGCCCTCAGTG TATCCCCACCCCAATGTGGCGCTGGGAGATGAAGAGGAGTTGATGCAGGT
ESTD- NRAS	--	--	---	---	GTGTTTCTTAATCTTTCCAGGAACACAGTGACCATAATTTCTTTCTGCAGGCATATAGAAATTTGGT GGGTTTCTTTTATGTAGGGTGATATTGGATACTTTTTGTGTGATTATATATTAGCAATTTGAGGG ACAAACCAGATAGGCAGAAATGGGCTTGAATAGTAGTCTTATTTAACCTTGGCAATAGCAATTGC ATCCCTGTGGTTTTTAATAAAAT
ESTD-OTC	--	--	---	---	GTGACCTTCTCACCTTTAAAAAACCTTTACCGGAGAGAAATTAATATATATGCTATGGCTATCAGCAGA TCTGAATTTAGGATAAACAGAAAGGAGAGGTATGTAACA
ESTD-PAI1	--	--	---	---	GCCACCAACCCACCCACGACACACCTCCAACTCAGCAGACAAAGTTGTTGACACAAGAGAGCCC TCAGGGCACAGAGAGAGTCTGGACACGTGGGAGTGAGCCGTGTATCATCGGAGCGCGCGGCAC ATGGCAGGATGAGGGAAGACCAAGAGTCTCTGTGGGCCCAAGTCTTAGACAGACAAAAACCTAG ACAATCACGTGGCTGGCT
ESTD-PAR	--	--	---	---	CTCTTCAGGAACCCAGCTCTCTTACCAACACGACTTATTGCTGTCGAGAGGTACACCCGTAGA ACTTCTCCTAACTGTAAATTTAGTTAAAGGAATCGAACTGGCTCTGAAGACATGGAGATACTGCCT AATCGACTGGCTTTCATTAGCTCTGTGAGTGTTCCTTCTTCTGTTCTAGAACGTTTCTTAG GACTGGCAGTTAAGCTTTCACCTTAGGCTTCTGTATACCCATGCC
ESTD- PBDA	--	--	---	---	CCTTCTCATGCCAGATGGAAATTCAGTCCCTTCAGGATCTGCCCTAACCTGTGACAGTCTAAAGAGT CTGAGCCGTGGCTGGGAAGGGCAGGACTAATCCAAATCTACCCGAGCTTGTCTCGCATACAGACG GACAGTGTGGTGGCAACATTGAAAGCCTCGTACC
ESTD-PS-1	--	--	---	---	GGGGAGTAAACCTTGGATTGGGAGATTTCATTTTCTACAGTGTCTGGTTGGTAAAGCCTCAGCAACA GCCAGTGGAGACTGGAAACACCAACCATAGCCCTATTCGTAGCCATATTAATGGTTGTGCCCTTACATT ATTACTCCTTGCCATTTTCAAGAAAGCATTGCCAGCTCTTCCAACTCCCATCCTCCATCCTTGGGCTGTTTT CTACTTGGCACAGATTATCTTGTA
ESTD- PXMP1	--	--	---	---	ATGAACATGGTCTTTAATTTTATGATATGTTTATAGTATCTTAAAGGGCTCTTTTTTTTA ATGCAGAAAGAGGGGAAAAAGAGCGAGCTGTGGTGACAAAGTGTTTTCTCAAGGCTCATACAGA TTCTGAAATCATGGTCCCTAGAACATTTGTAAAGAGGTAGTCTTATGAAATTAATCTT
ESTD- Per/RDS	--	--	---	---	ACCTACAGACGTGCTGGATGGTGTGTCACACCCCGAGGAATCTGAGAGCGAGAGCGGCTGGCTG CTGGAGAAGAGCGTGGCGGAGACCTGGAAGGCCT



ESTD-RDS	--	--	---	---	---	CCCAGGAATCTGAGAGCGAGAGCGGCTGGCTGCTGGAGAAAGAGCGTGCCGGAGACCTGGAAGG CCTTCTGGAGAGTGTGAAGAGCTGGCAAGGCAACAGGTGGAAGCCGAGGGCGCAGACGAGG CCAGGCCCCAGAGGCTGGCTGAGGGCCCTGGGGCCCTCCCTCCCGAACACTGAGAAATAGTGCAC CCAAGAAACGTGGATCTCCCTCATCCAACTCCGAAAGCTGAA
ESTD- RYR1	--	--	---	---	---	CTTCGTACGGGAGGTACAGTCTCCGCTCTTTCATGGACATATGGATGAGTGTGACCATTTCCC CTGCTACAGTATGACAGCGCAGACTTGTCTACTATGAGAGGGAGCTGTGTGACATCATGCCCGG TCCCTCTGAGGCTGGAGCCACTGAGAATCAGCTGGAGTGGAGCCACCTGCGCTGGGGCCAGCCACT CCGAGTCCGGCATGTCACTACCGGGCAGTACCTAGCGCTCACCGAGG
ESTD- SPTB	--	--	---	---	---	TGAAACACCTGTGGTCCGGAGCCAGGTGTGTTTCTCCTGGAGCCTGAGGAGTTTGTGTGTGTG CAGTCCCCCGGCCACCTGCTGGTTGAGCCTGGACATACACCTTCACCTCTTGGCCCGGAGAGAC ATTACCCACCTGGCCATGTCCTGGCCTGTTGTGCACACCTCTGTGAAGACCCCAACCCCTGCCTCC CCCACCCAGCCAGTTCTCTAGCAAGGGCAGGAC
ESTD- SSA1	--	--	---	---	---	TTACATTTGTGGATTGTTCTTTTGTGTGCAGCACCTTTTCAACATGATGTGATCCCATTTGTCCAAG TTTGCTTTGGCTGCTGTGCTGTGGGATATTTGAAGAGATCTTTGCCAGTCCAATGTCTCTAGAGAG TTTTCCCAATGTTTCTTGTAAATAGTTTCATAGTTTGAGGCCCTTAGATTTAAGTCTTTAATCCATTTTG ATTGATTTCTGTA
ESTD-TAT	--	--	---	---	---	AAATGGTCAGGACCCTGATCCACAAGAAAGTGGTACCATTTCATCAGGGCCATCAGTTTCATTCAGCTC CCATGACTGGGATGCTAAGTCAGCAACTGAGTTTCATTCATCTTAAATGACTTGTGGGACAGGATCA ATTTCTCTCACCTAGAACGTTTGTTTACAACCTTTCTCCAGTATGGATGGGATTATGATGGGGGG GAGAAGCAAAATTTTAAATAGGACCCATGAGACACATCA
ESTD- THR	--	--	---	---	---	TGCGGCTTTCTCCGGCAGGGTAGACTTCTTACTTGGCTGTTGATTTCCAAGAGAAAGAGTCCCAAG CACACGAAACAGAAAGTTGCAGATCCCATGAGGCCAGTCTCAAAATCACACAGGATCAGTTTCATCCA CACTGGATTGGCCCAACAAGTCTGAGTGCCAGCCAGGACTCAACGGTCCCCCTGTAGATGGG
ESTD- TNFA	--	--	---	---	---	TTCTGCATCCTGTCTGGAAGTTAGAAGGAAACAGACCACAGACCTGGTCCCCAAAGAAATGGAGG CAATAGGTTTGGGGGCATGAGGACGGGTTTTCAGCCTCCAGGTTCTACACAAATCAGTCAGTG GCCCAGAGACCCCCCTCAGAAATCGGAGCAGGAGGATGGGAGTGTGAGGGGTATCCTTGTATGCTT GTGTGTCCTCCCACTTCCAAATCCCCCGCCCCCGATGG
ESTD-TYR	--	--	---	---	---	TAGTGAAGTTTTCATCTCTCTGACGTTCTGGATTCTTGTCCACCGCAACAAGAGAGTCTATGC CAAGGCAGAAAGCTGGTCTTCATGGGCAAAATCAATGTCTCTCCAGATTTTCAGATCCCCCAAGCA GTGCATCCATTGACACATAATAATGATCCAGACAAAGAGGTCAATAATTTGATGTGCTGTTAAACAT GGGTGTGATCACTTTTCAATTTGGCCATAGGTCCCTATGGGATGACA

ESTD-TYRP1	--	--	---	---	AGTAGTGATGAAGCTAACCAGCCTCCTCACTGATCAGTATCAATGCTATGCTGAAGAATATGAA AACTCCAGAATCCTAATCAGTCTGGTCTAACAAATGCCCTACTCTCTTATGCAATTAGTATCACAA AACCACCTGGTTGAATATAATAGATTGAGTTAATACTGTAATTTCTTTACACTTATTACCTTCTTTCT AATACAAGCATATGTTAGAAATTAAGTTCTAGGCATACTT
ESTD-VB12	--	--	---	---	TTCCCAAGGCCTCAATACAAGTCTTTTCTTGGGATTACAACATCAGGCTGTGTTGTTTCTATTACA GGACACATGGATGCTGGAATCACCCAGAGCCCCAAGACACAAGGTACAGAGACAGGAACACCAAGTG ACTCTGAGATGTCACCAAGACTGAGAACCAACCGTTATATGTACTGGTATCGACAAGACCCCGGGGCATG GGCTGAGGCTGATCCATTACTCATAT
ESTD-VWIF	--	--	---	---	AGGTAGGAAAGCAAAGAGTTGATTAGTGAAGGAGAGAATGGACCTACCTTCCACACTGTCCTTTGG TCCCCTAGAGTCTG
ESTD-WT1	--	--	---	---	AAGACCTACGTGAATGTTACATGTGCTTAAAGCCTCCCTTCTCTTACTCTCTGCCTGCAGGATGTG CGACGTGTGCCTGGAGTAGCCCCGACTCTTGACGGTCGGCATCTGAGACCAGTGAGAAACGCCCTT CATGTGTGCTTACCCAGGCTGCAA
ESTD-s14544	--	--	---	---	TTGGGAAGTTAGAGCCTATATTAATTACGGAATTACTAAGGCAGGACACAGAGGCTTAATTGA TATCCCAAAGTTGAAATGTCTCAGTTCGCTGTGGTTAGATGCAGGATTTATATGATCCGTTAACCC TCT
EST71770 6	--	--	---	---	AGCACCACTCTCAGCTCAAGCCTCAGCACCAAGATGCTGTCTATAAGGATGACGTGCTGTTTACAA CATCTCCTCCATGAAGAGCACAGAGAGTTATTTATCCTGAAGTCCGGATCTATGACTCAGGGACAT ATAAATGTACTGTGATTGTGAACAACAAGAGAAAAACCACTGCAGAGTACCAGCTGTTGGTGGAAAGG AGTGCCCACTCCCAAGGTGACACTGGACAAGAAAGAGGCCATCCAAAGG
EST52418 6	--	--	---	---	CAAAATTACAGGGTCAACTGCTATGATGTGTTTGGAGCCCCAGTCACCCCTTGGTGGCTACAAGATGTG GGGAGTGGCCGGGAGTTGGCGAGTACGGCTGCAGGCATACACTAAAGTGAAACTGTGAGTGTGG
EST13586 3	--	--	---	---	CCCCTCTATTTGCCAGCCCCAGGGACAGAGCTGATCCTTGAACCTCTTAAGTTCACATTGCCAGGA CCAGTGAGCAGCAACAGGGCCAGGGCTGGCTTATCAGCCTCCAGCCAGACCCCTGGCTGCAGACAT AAATAGGCCCTGCAAGAGCTGGCTGCTTAGAGACTGCGAGAAGGAGGTGCGTCTGCTGCTGCCCGG GTCACTC
EST51976 7	--	--	---	---	AGGCAGAAACTGGCCCCCATCGGGGGACGTGGAAGGCCACTTGAGCTTCTCTGGAGAAGGACCTGA GGGACAAGGTCAACTCCTCTTCAGCACCTTCAAGGAGAAAGAGAGCCAGGACAAGACTCTCTCCCT CCCTGAGCTGGAGCAACAGCAGGAACAGCAGCAGGAGCAGGACGAGGAGGAGGTGCGAGATGCTGGCC CCTTGGAGAGCTGAGCTGCCCTGGTGC

EST11458 6	--	--	--	---	---	CCACTTTGGTAGTCCAGTGTGACTCATCCACAATGATTTCTCCAGTGTCTATCTGTTCTCGAGTTTT CTCTGCCATGTTGCTATTGCAGGACGGACCTGTCCCAAGCCAGATGATTTACCATTTTCCACAGTGGT CCCATTAANAACATTCTATGAGCCAGGAGAAGATTACGTATTCCTGCAAGCCGGCTATGTGTCC CGAGGAGGATGAGAAAGTTTATCTGCCCTCTCACAGGACTGTGGCC
EST39852 8	--	--	--	---	---	CGGTCTTCTCCAGGTATTGTTGCAGAAAGCCGAGATGACCTCTATGTCCTCAGATGGATCCATAAG GCATTTCTTGAGGTGAGTACACCTTCCCACTCTCTACGGTACAGAAAGGAGATGCATGAACAGGA GGAACACGTGGAAAAGGCCTGTTTCCAGTGTAAAGCATGCAAAAGGCCTCCACAGGCTGCTATAAT ACAGCCCT
EST62448 0	--	--	--	---	---	ACCTGGTGTGCTGGTGTGGGTGAACCTGGTCTCTTGGCATTGCGGCTCTCTGGGGCCCGTGG TCCTCTGGTGTGCTGGGTAGTCTGAGTCAACGGTGTCTCTAGTGAAGCTGGTGTGATGGCAACC CTGGGAACGATGGTCCCCCAGGTGCGGATGGTCAACCCGGACACAAGGGAGAGCGCGGTTACCCCTGG CAATAT
EST36027 2	--	--	--	---	---	AGTGACTTCCAAGGAAATGGCTACCCAACTTGCCTCATGCGCTGTGCGCAACTATGCCTCTCAGA ACATCACTACCACCTGCAAGAACAGCATTGCATACATGATGAGGAGACTGGAACCTGAAAAAGG CTGTCACTTACAGGGCTCTAATGATGTTGAACCTGTTGCTGAGGGCAACAGCAGGTTCACTTACACT GTTCTGTAGATGGCTGCTCTAAAAGACAAATGAATGGGAAAGACAA
EST12274 0	--	--	--	---	---	CCCCAGTTGACAGCCACTGCTCTAGACTAAGTTTCTTGTCTCCAATAGAGCCTTACCAAAAGTGTAT TACATAAAGAAGTCAAGTGGTTTACTCTCATGACCAAAATATCTTCCCTCCTTAGGATGAGGTGA TAGTAAATGACCGATGGGTGAGAACTGTTCTGTCCACCATGGAGGATACTATAACTGTGAAGATAA ATTCAAGCCACAGAGCTTGCCAGATC
EST76807 7	--	--	--	---	---	ATGCTAAGGGGATCGGACATGAAAGGACCCCTGTGAGCCGATTGTCTCTATCTCCAGCGGCCCTGTCTC CAGCTCACTCATCAATGGGGCCAGTCAGGCCAGGCACTGGGCTCCGGAGGACTCACCACCTGCCCCCT GCTGCCATGTGGACTGGTGCAAGTTGAGGACTTCTTG
EST44438 3	--	--	--	---	---	GCAGCCAGGAGCCGCTGCACCATGCCCGCATAGATGCGGACCTCAAGCTCGACTTCAAGGACGTCCT GCTCCGACCTAAGCGGAGCAGCCTCAAGAGCCGAGCGAGTGGG
EST12839 3	--	--	--	---	---	TGCAAAACACACAAAAATCTCTCCAGATGCCCTATGGCTGTGGAGAGCAGAATATGGTCTCTTGTCT CCTAACATCTATGTACTGGATTATCTAAATGAACACAGCAGCTTACTCCAGAGATCAAGTCCAAAGG CCATTGGCTATCTCAACACTGGTGGTGAATTAATCTGAGTAAGGGAAACTTGAATGTTTCAACTGG ATTTCCAGTAGGTTTCAGTTACTTATGAATATATGATACCTTAGCTTAG
EST54419 8	--	--	--	---	---	CTTCTGCCATAATTTGAATGATATTGTTGCTGTGGGACCTGAGCACTTTTATGGCACAAATGATCACTA TTTTCTTGACCCCTACTTACAATCCTGGGAGATGATTTGGGTTAGCGTGGTGTGTTGTTGTTGTTACTA TAGTCCAAGTGAA

EST10398 2	--	--	--	---	---	TGCCTGGGTGGCAAGGCTGCAACAAGGAGGCAACCCAGGAGGCTTTTATGAAGCGGCCATGGTA AGATGCTGCCACCTTTATCTACTTGATGATGTTACATTTGGGCTTGACCTTCCACACGCGAGAAG CATTGTTTCTTCGGGCCAAGAAGGTATCTACCAATAGTGCTATTAGGCAITTG
EST36751 7	--	--	--	---	---	CCAAAGTCGTTCAATTTAGCTTTGCAGGTTTAACTCGATTACTTTTCTATTCAAAATCTCTGTAAAA TTGAAATATGAACCTAGTTTCTGATCTATGGTTTCAAGTTAAACAG
EST40562	--	--	--	---	---	CACGTGAAAGGAGCTATTTTGGAGGCTTTAAGAGTAAAGAACTGTCCCCAAACTTTGTGGCTGAC TTTATGGCTAAGAAAGTTTCACTGGATGCATTATAACAAATATTTACCTTTTGAAAAAATAAATG AAGGATTTGACCTGCTTCGCTCTGGAAAGAGTATCCGTACCGTCTGACGTTTGAACAATACAGAT GCCTTCCCTTGAGCAGTTTTCAGCCTCTCTTACCCCTA
EST18288 3	--	--	--	---	---	GCTCTATACCCCTGTGGTCTCCACGCTCTCTGGACTTCACAGAACTGGATGTTGCTGTGAGAA GATTGACAGGTTTCATGCAGGCTGTGACAGGATGGAAGACTGGCTGCTCCCTGACGGGAGCCAGTGTGG ACAGCACCTGGCTTCAACACCTACGTCCACTTCCAAGTAAGGCAAACTCTCTGCTGGCTCTGGC CCTAGGACTTAGTATCC
EST70523 3	--	--	--	---	---	TTCCCGCCAGCCCCCATCTTGGCACCTGGTCCCTCAGGGGCCACCCCGGGCACTACCGCTCT CGCTCTGGTAACATCCGGCCGGCGCCGCTCTTGAGACATAGCCTGGACCGTTTCCGTATAGGAGG ACCGTGTAGGCTTCCCTGTCGGGGCTTCCAGGGGCCAGCCCTGCAGAGAGGGGTCCCTGTGCTG TGAGCTGAACACAGCTGTGGAGTGTCTCCACGTTG
EST58707 7	--	--	--	---	---	CAGTGTATCTGGAAAGCCTACAGGACACCAAAAATAACCTTAATCATCAATTGGTTACAGGAGCTTT AAGTTACAGCATCTTTGGCTCACATGAAGGCCAAATCCGAGAGACCTAGAAAGATACACGAGACCGA ATGTATCAATGGACATTACGACGAACTTCAACGATACCTGTCTCTGGTAGGCCAGGTTTATAGCA CACTGTACCTACATTTCTGATTGGTGGACTCTTGTCTAAGAACCTT
EST74167 6	--	--	--	---	---	AGACCATGAAGGAGTTGAAGGCTACAAATCGGAACCTGGAGGAACAACCTGACCCCGGTGGCGGAGG AGACCGGGCACGGCTGTCCAAGAGCTGCAGGGCGGCAAGCCCGGCTGGCGCGGACATGGAGGA CGTGCGGCGCCCTGGTGCAGTACCGCGCGAGGTGCAGGCCATGCTCGGCCAGAGCACCGAGGAGC TGCGGGTGGCCTCGCTCCACCTCCGCAAGCTGGCTAAGCGGCTCCTC
EST43211 8	--	--	--	---	---	CGCCTGGTGCAGTACCGCGCGAGGTGCAGGCCATGCTCGGCCAGAGCACCGAGGAGCTGGCGGTGG CCTCGCCTCCCACTGCGCAAGCTGCGTAAGCGGCTCTCCGCGATGCCGATGACCTGCAGAAAGCGCC TGGCAGTGTACAGGCGGGCGCGAGGGCGCGAGGGGCTCAGCGCATCCGCGAGCGGCTG GGGCCCTGTGGAACAGGGCGCGCTGGGGCGCGCACTGTGGGCTC
EST36770 4	--	--	--	---	---	TGTAGCCAAAGTCACCTGCATCATCATTTGGCTGCTGGCAGGCTTGGCCAGTTTGGCAGCTATAATCC ATCGAAATGATTTTTCATTGAGAACACCAATATTACAGTTTGTGCTTCCATTATGAGTCCCAAAAT TCAACCTCCCGATAGGCTGGGCTGACCAAAAATATACTGGTTTCTGTTTCTTCTGATCAT TCTTACAGTTATACCTTATTGGAAGGCCCTAAAGAAGGCTTATG

EST26021 1	--	--	--	---	---	TAATGTAAGCTCATCCACCAAGAAGCCTGCACCATGTTTTGAGGTTGAGTGACATGTTGAAACCTGT CCATAAAGTAATTTGTGAAGAAGGAGAGCAAGATTCCTCTGCAGCACCCTCACTACCAATGA GCATTAGCTACTTTTTCAGAAATTGAAGGAGAGAAATGCATTATGTGACTGAACCGACTTTTCTAAAGC TCTGAACAAAAGCTTTTCTTCCCTTTTGCAACAAGACAAAGCAAAAGCC
EST51212 0	--	--	--	---	---	ATCCTGAGCTCGCCAATAAGCTTCTTGGTCTACTTCTCTCTCCACAAGCCCCCAATTCACATTTCTCA GAGGAAATCCCAAGCTTAGGAGCCCTGGAGCCTTTGTGCTCCCACTCAATACAAAAGGCCCTCTCT ACAATCT
EST20118 2	--	--	--	---	---	GTCCGAATCCTCCTCTGAAAGTGCCCGGTTTAACTGCTCATGACGCTGCGGCTGTGGTCCAGCT GAGGTGAGGGGCTTGAAGCTGGGAGTGGGTTAGGGACGCGGTCTCTGGTGCATCCTAAGCTCT GAGAGCAACCTCCCTTGAAGCTGGGAGTGGGTTTAGGGACGCGGGTCTCTGCGTGCATCCTAAGCT CTGAGA
EST53018 6	--	--	--	---	---	ACAATCCAGGTCACACATTCAGAAAGAGGAGGGGTGGTCACTGAGCCTGGGTAGGTCCAGTAATCCA AGGATTCAGGAAGGAGGCCACGAGGATCGAAGTTAGTGAAGTC
EST68787 5	--	--	--	---	---	CTTCCTATGGGATTTGACTTTATTTTCTCCATTGCTTACCTTTACAGGTGTTAATATAGTGAAAAG GAAGCTTGAGCTCATGACAAATTTGAAGCTGACAAATTACACAAGAGGAAATAAATTCACAGTCAA AGAATCAAGCACTTTTCGAACATTTGAAGTTGTTTTGAACCTGGTGTACCTTTAATTACAACCTAG CAGACGGAACCTGAACCTCAGGGTAAGAAT
EST34088 2	--	--	--	---	---	GTGGGGCAACAGTGGGAGAGAAGGGCCAGGGTATAAAGGGGCCACAGAGACCGGCTCAAGG ATCCCAAGGCCCAACTCCCGAACCACCTCAGGGTCTCTGTGGACAGCTCACCTAGCTGCAATGGCTACA GGTAAG
EST37382 5	--	--	--	---	---	CTGAGAAACAATTGGCAAAATAAAGGAATTTGGCACTCCCAACCCCTCTTCTCTTCTCCCTTGGA CTTTGAGTCAAAATGGCCTGGACTTGAGTCCCTGAACCAGCAAGAGAAAAGAGGCCCCAGAAAT CACAGTGGGCACGTGCGGTCTACCGCCATCTCCCTTCTCACGGGAATTTTCAGGGTAAACT
EST74082	--	--	--	---	---	TCCAGGGTGGCTGGACCCCAAGGCCACGCTCTGCAGCAGGAGGACGTGGCTGGCTCGTGAAGCATG TGGGGTGAGCCAGGGGCCCCAAGGAGGACCTGGCTTCAGCCTGCCTCAGCCCTGCCTGTGCAC CCAGTCACTGTCTTCTGCCATGGCCCTGTGGATGGCGCTCCTGCCCTGCTGGCGTGTGGCCCTC TGGGACCTGACCCAGCCGAGCCTTTGTGAACCAACACCTGTGCG
EST45311 0	--	--	--	---	---	GCCCTCCTCTCTTCCAAATTCGTCCCTATAGTTTCTCTATTAAGTGAACATGACATTCCTTTTAGT GGATAGATGCACACAAACACAAAGCCATTATGGGAAGGATCCACGTGTGTGGCCATATTGAACA CATTTTCTGCAAAATCACCTCTTTTCATTTAACAGCCCTTATTCATGAGCCCTTTTCTTTTCAGTAGTA CATACACATCTGTGTCAATTTGTTGAAT

EST65258 8	--	--	---	---	---	TGCCCCATCAGCGGCCGAGACATGGCTTGCCACAGCTCTTGAGGATGTACCAATTAACCAAAAT CCAGTTATTTCCACCCTCAAATGACAGCCATGGCCGGGTGCTTCTGGGGCTCGTCGGGGGG ACAGCTCCACTCTGACTGGCACAGCTTTGTCATGGAGACTTGAGGAGGGGCTTGAGGTTGGTGAG GTTAGGTGCGTGTTCTGTGCAAGTCAGGACATCAGTCTGATTAAA
EST38216 3	--	--	---	---	---	ATGCAGGATGAAGGTGGACAGGAGGAGAGGGCCCAACCTGTCTATCCAGGGCCTGCAGATGTCGCTG GACTATGGGTTTGTGACCCCACTGACCTCCATGAGCATCAGGG
EST62782	--	--	---	---	---	ATACTAGTACAAGTGGTAAATTTGTACATTACACTAAATATTAGCATTTGTTTAGCATTACCTAA TTTTTTCTGCTCCATGCAGACTGTTAGCTTTTACCTTAAATGCTTATTTTAAATGACAGTGAAG TTTTTTTTCTCGAAGTGCCAGTATCCAGAGTTTTGGTTTTTGAACCTAGCAATGCCTGTGAAAAA GAACTGAATACCTAAGATTTCTGCTTGGGGTTTTTGGTGCAATGCA
EST35879 9	--	--	---	---	---	GAGATCGGTGTGTGAGTTATTAGGCATGGTTACCTGTGATTCCTCCAAATCTTGCGTTCCACCGATG GAACTGCCGGCAAATCCTGACACGTGTGACCCAGGCTGTACCCAATTAGGTGAACATGGCTTCGAG AGAGTTGAACAGATTCTCTGGAAGACAGCAGCGGGATGGGGCAGGAGAGCTGCCTGGATGAA
EST68308 5	--	--	---	---	---	GGAAAGAGATTTAAGAAGCTTGATTGGACAATCTGTTCTTTGAGTGTGGAAGAGTTTCATGCTCT GCCTGAGTTACAACAGAAATCCTTTAGTACAGCGAGTAATAGATATATTCGACACAGATGGGAATGGA GAAGTAGACTTTAAGGTAAGAAAGTAGTATTTTTTA
EST54045 6	--	--	---	---	---	GGAATATTAAAAATATTTTAAATACCTCCATTTTGCCTTATCCTTTTAGTGAAGATGATACCTGCAA AAGACATGGCTAAAGTTATGATTGTCATGTTGGCAATTTGTTTCTTACAAAATCGGATGGGAAATCT GTTAAGTAAGTACTGTTTGGCTTGGAAATGGATTTTAAATGTTGACTTTATCAT
EST52908 0	--	--	---	---	---	ATCACAGGTCTCTGGTCTCTGGCCATCATTTCTGGGAGAGATGGATGGTGTCTGCAAGCCCTTTGG CAATGTGAGATTGTATG
EST19590	--	--	---	---	---	AGGAGAAGCTGAGGAGGGGAAGAGAGAGACAAGAATGACATTGATGAGTGAAGATGTCGGCTCAGGAT GCCGGAAAATGAC
EST76136	--	--	---	---	---	TGAAGCTTCTGCCCAAGCTTGCAATTTGTTTCTAGGAGAACCCGGCTACACCTTTATCTATAGCCTTCCCC TAGGTCCT
EST58607 0	--	--	---	---	---	CTCTGGATGGTTACAGGTGGCAGGCACAAAGCCAGTCCATCCTGTAGTCATCATAGTTGTTGGCTCC CAAGTTGCTCTCCTCACTGGAGAACAGGACAGCCACATGGCGGGATGGCCGGGGAGTTCTGGT TGCGGCCACGGCTGTGGCTCTGTTGTGAACGGTAGCCCTTTGCGGTTGCGATGCCTAAACCTTTGTTCT TGCCAAAGGAGGGCGGGGTGCCATGCTGAGATGATAGTGGCGCC
Legend: 1=Marker 2=PM Position 3=Reference Allele 4=Altered Allele 5=SNP Forward Primer 6=SNP Reverse Primer 7=Sequence						

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## EQUIVALENTS

While this invention has been particularly shown and described with references to preferred embodiments thereof, it will be understood by those skilled in the art that  
5 various changes in form and details may be made therein without departing from the spirit and scope of the invention as defined by the appended claims. Those skilled in the art will recognize or be able to ascertain using no more than routine experimentation, many equivalents to the  
10 specific embodiments of the invention described specifically herein. Such equivalents are intended to be encompassed in the scope of the claims.

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## CLAIMS

WE CLAIM:

1. A nucleic acid segment shown in column 7 of the Table,  
or a portion thereof which includes a polymorphic site,  
5 or the complement of the segment or portion thereof.
2. The nucleic acid segment of claim 1 that is DNA.
3. The nucleic acid segment of claim 1 that is RNA.
4. The segment of claim 1 that is less than 100 bases.
5. The segment of claim 1 that is less than 50 bases.
- 10 6. The segment of claim 1 that is less than 20 bases.
7. The segment of claim 1, wherein the polymorphic site is  
biallelic.
8. The segment of claim 1, wherein the polymorphic form  
occupying the polymorphic site is the reference base  
15 for the fragment listed in the Table, column 3.
9. The segment of claim 1, wherein the polymorphic form  
occupying the polymorphic site is an alternative form  
for the fragment listed in the Table, column 4.
10. An allele-specific oligonucleotide that hybridizes to a  
20 segment of a fragment shown in the Table, column 7 or  
its complement.
11. The allele-specific oligonucleotide of claim 10 that is  
a probe.



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12. The allele-specific oligonucleotide of claim 10,  
wherein a central position of the probe aligns with the  
polymorphic site of the fragment.
13. The allele-specific oligonucleotide of claim 10 that is  
5 a primer.
14. The allele-specific oligonucleotide of claim 13,  
wherein the 3' end of the primer aligns with the  
polymorphic site of the fragment.
15. The allele-specific oligonucleotide of Claim 10, which  
10 is selected from the group consisting of the nucleotide  
sequences of the Table, column 5.
16. The allele-specific oligonucleotide of Claim 10, which  
is selected from the group consisting of the nucleotide  
sequences of the Table, column 6.
- 15 17. An isolated nucleic acid comprising a sequence of the  
Table, column 7 or the complement thereof, wherein the  
polymorphic site within the sequence or complement is  
occupied by a base other than the reference base shown  
in the Table, column 3.
- 20 18. A method of analyzing a nucleic acid, comprising  
obtaining the nucleic acid from an individual; and  
determining a base occupying any one of the polymorphic  
sites shown in the Table.
- 25 19. The method of claim 18, wherein the determining  
comprises determining a set of bases occupying a set of  
the polymorphic sites shown in the Table.

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20. The method of claim 18, wherein the nucleic acid is obtained from a plurality of individuals, and a base occupying one of the polymorphic positions is determined in each of the individuals, and the method  
5 further comprising testing each individual for the presence of a disease phenotype, and correlating the presence of the disease phenotype with the base.